er OFFICIAL USE UNLY
emise No.03/17/0/0107

APPLICATION FOR PERMIT PROCESS

NO CONGER IN USE

		Person to Contact		
 Pacility Address	Beal Avenue	Mailing Address	Beal Avenue	
Bucyrus	Street Crawford	44820 Bucyrus	Street Ohio	44820
City, Village or Town	nship County	7in City	State	Zij
		Telephone 419-	562-1011	
This application is	s submitted for:	Area Cod		Number
,	perate an existing sour	ce Transition	US EPA RECOR	DS CENTER REGION 5
· .	· ·	r modify an existing source		
📝 🕅 Variance fro	om regulation(s)	for months	1 100111 01001 10111	
W	mation to accompany thi			82078
Plans and dr	awings DE	nission tests or calculations	Process flow	
Compliance t	Reclaim blenders (R	onstruction schedule ubber Rubber Strainers	Maditional 1 Voar install	niormation 64
Name of process Product of this pro-	ocess Rubber recla	a im	Tear Install	1951, 64
Process equipment _	Ribbon blenders	& extruders Your identific	ation	
ManufacturerE	arrel	Make or model	<u>7"</u>	
Capacities (lbs/hr)	: Rated Ma	aximum	•	
		ODDINAMENO THE VIDUARITOR		
		OPERATING INFORMATION		
Normal operating so	thedule: hrs/day 24	$\frac{5}{\text{days/wk}} = \frac{5}{\text{wks/yr}} = \frac{5}{\text{wks/yr}}$	* .	•
Percent annual prod	luction (finished units)) by season: Winter <u>25</u> Sp	ring 25 Summer	25 Fall 25
HOULED PROUGOCION I		TOO SOOT		`
		309,000# Maximum		
Projected percent a	nnual increase in produ	iction	•	,
Projected percent a Method of exhaust v	nnual increase in produ ventilation: 🕍 Stack [•	
Projected percent a Method of exhaust v Type of process: M	annual increase in produ /entilation: Ma Stack [a Continuous [] Batch	oction □ Window fan □ Roof vent □	•	
Projected percent a Method of exhaust v Type of process: & If batch, minutes p	nnual increase in produ ventilation: Ma Stack [d Continuous [] Batch per cycle minute	String Roof vent	Other, describe	
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RAW MATERIALS

RUBBER RECLAIM

DESCRIPTION	TOTAL		LB/HR
Tires with beads	12,750,000 1). -	2,213.541 #/hr.
Debeaded tires	200,000		34.722
Cab tire scrap	40,000		6.944
MR	2,000,000		347.222
Dark aromatic pet pl	asticizer (L x 777) 20	04,000 gal.	35.416 gal/hr.
Reclaiming agent	20,000 11	. .	3.472 lb.
Reclaiming oil (solv	enol #2) 24,000 ga	a].	4.166 gal/hr.
Reclaiming oil (hero	osol 8550) 72,000 ga	al.	12.500 gal/hr.
Ground bituninous co	al (Austin) 250 ,000	lb.	43.402 lb/hr
Ground whiting	7,285,000 11	.	1264.756 lb/hr.



official use only disc No. 03/17/01/0107

DATA SHEET STACKS AND OTHER EGRESS POINTS

Pacility Name Swan Rubber Division of Amerace-E	sna Jack McCoy
Beal Avenue	Beal Avenue
Bucyrus Crawford 4482	Bucyrus Ohio 44820
City, Village or Township County Zip Type: Round	City State Zip
	Telephone Area Code Number
Type: Round Rectangular - top inside dimension(s) (I. & W or Diam.)
Height: Above roof 4-8" ft. Above ground 16	
Exit gas: TempoF. Volume ACF	· ·
Continuous monitoring equipment: Yes No. 1f y	
	Pollutant
or control device discharges into this stack show all	ent, control equipment and stacks. If more than one source connections.
RUBBER RECLAM BLENDER S	
	ROBINSON
	C-0"
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ortant Note: If emissions from the above stack have been determined by performance testing or other means, include such data and supporting calculations with this data sheet.

OFF TO L	AL USE	ONLY			
ise No.	03	12	10	1/013	22
ce No.		108	2	_	

acility Name Swan Ru	lbber Division of Am	erace-Esna Person to Cont	actJack McCoy	
Facility Address Beal	Avenue	Mailing Addres	Post Avenue	
Bucyrus	Street Crawford	44820 Bucyrus	Stro	44820
City, Village or Township		Zin City .	State	Zip
		Telephone	CAAA	Number
Type: Round 🗆 Rect	angular - top inside dim	ension(s) (L & W or Diam	.) 16" DIR.	
Height: Above roof	ft. Above gro	ound /O / ft.		
		ACFM Velocity		
1.00	•	No. If yes, indicate: Typ	•	
Commence of the Commence of th		or model	•	•
	n plan view of the source charges into this stack	ee equipment, control equipment, show all connections.	ripment and stacks. If	more than one source
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portant Note: If emissions from the above stack have been determined by performance testing or other means, include such data and supporting calculations with this data sheet.

AFFICIAL USE ONLY	
ise No. 03/17/0	1/0102
ise No. 93/17/0	

ty, Village or Township County Zip City State Zin Telephone 419-562-1011	athir Midness Deal Avel	nue	Mailing	Addross	Beal Avenue	
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Actin Velocityfeet per minute Actin Velocityfeet per minute	pe: Round Rectangul	ar - top inside dimen	nsion(s)(L & W o	or Diam.)	16" DIA	
intinuous monitoring equipment: Tes q No. 1f yes, indicate: Type	eight: Above roof 5'-7"	ft. Above groun	ıd <u>18-7"</u> ft	•		
mufacturer Make or model Pollutant awa flow diagram in plan view of the source equipment, control equipment and stacks. If more than one source control device discharges into this stack show all connections. **Transport Control of the source equipment and stacks. If more than one source control device discharges into this stack show all connections. **Transport Control of the source equipment and stacks. If more than one source control device discharges into this stack show all connections. **Transport Control of the source equipment, control equipment and stacks. If more than one source control device discharges into this stack show all connections. **Transport Control of the source equipment, control equipment and stacks. If more than one source control device discharges into this stack show all connections. **Transport Control of the source equipment, control equipment and stacks. If more than one source control device discharges into this stack show all connections. **Transport Control of the source equipment, control equipment and stacks. If more than one source control device discharges into this stack show all connections. **Transport Control of the source equipment, control equipment and stacks. If more than one source control device discharges into this stack show all connections. **Transport Control of the source equipment and stacks. If more than one source equipment and stacks show all connections. **Transport Control of the source equipment and stacks show all connections. **Transport Control of the source equipment and stacks show all connections. **Transport Control of the source equipment and stacks show all connections. **Transport Control of the source equipment and stacks show all connections. **Transport Control of the source equipment and stacks show all connections. **Transport Control of the source equipment and stacks show all connections. **Transport Control of the source equipment and stacks show all connections. **Transport Control of the source equipment and stacks s	it gas: Temp°F.	Volume	ACFM Veloci	ty	_fect per minute	
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control device discharges into this stack show all connections. ### Control device discharges into this stack show all connections. #### Control device discharges into this stack show all connections. ###################################	nufacturer	Make or	model	Polli	ıtant	· · · · · · · · · · · · · · · · · · ·
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	control device discharge	s into this stack sh	low all connecti	ons.		
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portant Note: If emissions from the above stack have been determined by penformance testing or other means, include such data and supporting calculations with this data sheet.

FOR OFFICIAL USE UNLY
Premise No. 03/17/01/0102
Source No. 9/010

APPLICATION FOR PERMIT

5/16/74 P

1.	Facility NameBeal Avenue	Person to Contact	Beal Avenue	
	Facility Address	Mailing Address _		
:	Bucyrus Crawford	d 44820 Bucyrus	s, Ohio	44820
٠٠.	City, Village or Township Cou	nty Zip City	State	Zij
		nty Zip City Telephone 419-	-562-1011	
		Area Coo	de	Numbe
2.	This application is submitted for:			
٠.	Permit to operate an existing			
 	Permit to construct a new sour	for months months		
3	Check list of information to accompar			
٥.		Emission tests or calculations	s A Process flow	diagram
	(7 Compliance time schedule	□ Construction schedule	□ Additional i	nformation
4.	Name of process Reclaim choppe	er (plastic)	Year install	ed <u>1952</u>
5.	Product of this process Plastic P	VC reclaim	· · · · · · · · · · · · · · · · · · ·	·
6.	Process equipment Manufacturer Mitts & Merrill	Your identific	cation //15	
			Type #15 - CSE -	- LH-HOG
8.	Capacities (lbs/hr): Rated	Maximum	·.	
		OPERATING INFORMATION		•
O	Normal operating schedule: hrs/day	24 days/wb 5 wbs/vr	48	•
	Percent annual production (finished t			Fall
12.	Hourly production rates (lbs): Avera Annual production (indicate units)	9,532,517#		•
			A Company of the Comp	•
13.	Projected percent annual increase in			*
14.	Projected percent annual increase in Method of exhaust ventilation:	production <u>None</u> ack Window fan Roof vent	Other, describe	
14. 15.	Projected percent annual increase in Method of exhaust ventilation: \(\frac{\mathbf{K}}{2}\) Sta Type of process: \(\frac{\mathbf{K}}{2}\) Continuous \(\sigma\) Bat	production <u>None</u> ack Window fan Roof vent tch	Other, describe	
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Important Note: If emissions from this source have been determined by source tests, material balances or emission factors, include such data and supporting calculations with application.

RAW MATERIALS

PLASTIC RECLAIM

DESCRIPTION	TOTAL	LB/HR.
Soft PVC Plastisol (boot scrap)	5,906,000 lb.	1025.347 1b/hr
Polyethylene (AC 617)	25,000	4.340
Plasticizer for vinyl reclaim	22,000 gal.	3.819 gal/hr
Plasticizer filter cake	865,000 lb.	50.173 lb/hr
Ground whiting	7,285,000 lb,	1264.756 lb/hr



FOR OFFICIAL USE ONLY	
Premise No. 03/17/0//	0102
Source No. 5/055	

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Important Note: If emissions from the above stack have been determined by performance testing or other means, include such data and supporting calculations with this data sheet.

RAW MATERIALS

PLASTIC RECLAIM

<u>DESCRIPTION</u>	TOTAL		LB/HR.	
Soft PVC Plastisol (boot scrap)	5,906,000	1b.	1025.347	1b/hr
Polyethylene (AC 617)	25,000		4.340	
Plasticizer for vinyl reclaim	22,000	gal.	3.819	ga]/hr
Plasticizer filter cake	865,000	lb.	50.173	1b/hr
Ground whiting	7,285,000	1b,	1264.756	lb/hr



FOR OFFICIAL USE UNLY	
Premise No. 03/17/01/01	02
Source No P / 010	

Premise No. 03/17/01/0102	APPLICATION FOR PERMIT PROCESS	MAD #	70
Source No. P/010		lack McCo	
	Amerace-Esna Person to Contact		· · · · · · · · · · · · · · · · · · ·
Pacility AddressBeal Avenue	Mailine Addrage		
Bucyrus Crawfor	d 44820 Bucvrus	street Ohio	4482
City, Village or Township Con	unty Zip City	State	Zij
Bucyrus Crawfor City, Village or Township Co	Telephone 419-	562-1011 le	Numbe
2. This application is submitted for:			Militor
Permit to operate an existing			
	arce or modify an existing source		
☐ Variance from regulation(s) _	for months		
3. Check-list of information to accompa			
. 🗴 Plans and drawings	☐ Emission tests or calculations	Process flow	diagram
Compliance time schedule 4. Name of process Reclaim chopy			
4. Name of process Rectaim Chop	Construction schedule per (plastic) VC reclaim	Year install	ed1952
5. Product of this process Plastic F			
6. Process equipment 7. Manufacturer Mitts & Merrill	Your identific	ation	I U UOC
		Type #15 - CSE -	- Ln-nud
8. Capacities (lbs/hr): Rated	Maximum		
	OPERATING INFORMATION		•
9. Normal operating schedule: hrs/day _	24 3 5 5	48	
			ກລາາ
10. Percent annual production (finished			rall
11. Hourly production rates (lbs): Aver12. Annual production (indicate units)	9,532,517# Maximum		•
13. Projected percent annual increase in	nyodustion None	11	
14. Method of exhaust ventilation: St	ack C Window fan El Poof vant D	Other describe	•
15. Type of process: [XContinuous] Ba		other, describe	
16. If batch, minutes per cycle			
17. Does process involve any of the foll		.cad □ Asbestos □	Rervllium Cl Mercur.
18. Materials used in process (include of		iona El nobobbo El n	portraram to more ar.
List of Raw			Amoun t
Scrap PVC plastic	Principal Use		(lbs./hr.)
Scrap rvc plastic			1654#/hr.
	IDF		
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	AUCIS	10.20	

19. This application must include a detailed process flow into pro

Important Note: If emissions from this source have been determined by source tests, material balances or emission factors, include such data and supporting calculations with application.

FOR OFFICIAL USE ONLY.

Premise No. 03/17/01/0102

Source No. P/008

APPLICATION FOR PERMIT PROCESS

A) 5/16/74

. Pacility Name			son to Contact		
Facility Address	Beal Avenue		ling Address	Beal Avenue	
Bucyrus	street Crawford		Bucyrus,	Street Ohio	4482
City, Village or To				State	Z
orty, triange or te			1ephone 419-56		•
		Ie.	Area Code		Num
. This application	is submitted for:				
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	construct a new sour				
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	ormation to accompandrawings			M Process flow	liomam
Compliance	time schodule	☐ Construction se	hedule	Д riocess liow (rragram formation
. Name of process _	time schedule Reclaim refiners	(Plastic)	ancture .	Year installed	1952-56
. Product of this p	_{rocess} Plastic re	claim PVC			
. Process equipment	rocess Plastic re Rubber mills Farrel		Your identificat		
. Manufacturer			Make or model	21 x 24 x 32	· · · · · · · · · · · · · · · · · · ·
. Capacities (lbs/h	r): Rated	Maximum			
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NORTHWEST BISTRICT OFFICE

RAW (MATERIALS

PLASTIC RECLAIM

<u>DESCRIPTION</u>	TOTAL	LB/HR.
Soft PVC Plastisol (boot scrap)	5,906,000 lb.	1025.347 lb/hr
Polyethylene (AC 617)	25,000	4.340
Plasticizer for vinyl reclaim	22,000 gal.	3.819 gal/hr
Plasticizer filter cake	865,000 lb.	50.173 1b/hr
Ground whiting	7,285,000 lb.	1264.756 lb/hr



FOR	DEFIC	AL USE	ONLY			, .
Pren	ise No	0.03	112	101	100	02
Sour	ce No.	<u> </u>	105	٥.		

i.

DATA SHEET STACKS AND OTHER EGRESS POINTS

Beal Avenue Street Street Street Street	
Bucyrus Crawford 44820 Bucyrus On10 City. Village or Township County Zip City State Telephone 419-562-1011 Area Code 24" DIA Type: X Round Rectangular - top inside dimension(s) (L & W or Diam.)	Zip
Type: Round Rectangular - top inside dimension(s) (L & W or Diam.) 24" DIA	Zip
Type: Round Rectangular - top inside dimension(s) (L & W or Diam.) 24" DIA	
Height: Above roof 67 ft. Above ground 276 ft.	
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Exit gas: Temp. OF. Volume ACFM Velocity feet per minute	
Continuous monitoring equipment: Yes No. If yes, indicate: Type Manufacturer Make or model Pollutant	•
Draw a flow diagram in plan view of the source equipment, control equipment and stacks. If more t	
or control device discharges into this stack show all connections.	
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ortant Note: If emissions from the above stack have been determined by performance testing or other means, include such data and supporting calculations with this data sheet.

or deficial use only
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DATA SHEET STACKS AND OTHER EGRESS POINTS

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ortant Note: If emissions from the above stack have been determined by performance testing or other means, include such data and supporting calculations with this data sheet.

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ortant Note: If emissions from the above stack have been determined by performance testing or other means, include such data and supporting calculations with this data sheet.

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OR OFFICIAL	USE	ONLY				
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oprde No. 📖	5	05	-3			

Facility Name Swan Rubber	Division of Amera	ace-Esna Person to Con	ntact Jack McCoy	
Facility Address Beal Aver Bucyrus City, Village or Township				
Bucyrus	Crawford Crawford	44820 Bucyrus	Ohio Street	44820
City, Village or Township	County	Zip City	State 419-562-1011	Zip
Type: K Round Rectangula		Telephone Ar	ca Code 24" Dia	Kumber
Height: Above roof 6-1"	ar - top inside dimens	sion(s)(L & W or Dia		
Reight: Above Foot	It. Moove ground	(1 <u></u>	了。B. K. K. M. A. M. A. M. A. M. M. A. M.	
Exit gas: Temp°F. Continuous monitoring equipment				
Manufacturer	Make or	model	Pollutant	
			quipment and stacks. If more	than one sour
or control device discharges		•		
44 PLASTIC RE	CLAIM REFII	VER		
				
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ortant Note: If emissions from the above stack have been determined by performance testing or other means, include such data and supporting calculations with this data sheet.

FOR OFFICIAL USE UNLY
Premise No. 03/17/0//0/02
Source No. P/007

APPLICATION FOR PERMIT PROCESS

A) MAD \$ 70 5/16/74

1.	Swan Rubber-Div. or	f Amerace-E	sna Person	to Contact	Jack McCoy	
:	/ Beal Avenue			Address	Beal Avenue	*
	Facility AddressStreet				Street	
· · .	Bucyrus Crawfor		·	Bucyrus,	Ohio	4482
	City, Village or Township Co	ounty Zi	p City	419-56	State 62-1011	Zi ;
$\mathcal{F}_{i}^{\mathcal{F}}$			Telepho	ne	2 1011	Numb
2.	This application is submitted for:					
	🗷 Permit to operate an existin	g source				
	Permit to construct a new so		A CONTRACTOR OF THE CONTRACTOR			
	☐ Variance from regulation(s).			months		
3.	Check-list of information to accomp By Plans and drawings			alculations	M Process flow	diagram
4.	Compliance time schedule Plastic ribbon	blender			☐ Additional in Year installe	_{.d} 1963
5.	Product of this process compound Process equipment ribbon blend Manufacturer Day	STOCK	 		#2 hlandan	
6.	Process equipment Day	er .	You	r identificat	ion #3 blender	
٠.	manuraceurer 2 non	·	mak	e or model		
8.	Capacities (lbs/hr): Rated 2,000	Maximum		-		
		OPEF	RATING INFOR	MATION'.		
	2		•			
9.	Normal operating schedule: hrs/day ²	days/	/wk	wks/vr48	25	25 25
10.	Percent annual production (finished	units) by se	eason: Winte		ng 25 Summer _	25 Fall 25
11.	Hourly production rates (lbs): Ave	9.300.000	Maxim	um <u>2000#</u>		
12. 13	Annual production (indicate units) . Projected percent annual increase i	n production			en en en en en en en en en en en en en e	
	Method of exhaust ventilation:			- of vent □ Otl	her, describe	·
۱5.	Type of process: ☐ Continuous 💆 B	atch	*	·		
	If batch, minutes per cycle					
	Does process involve any of the fol			able)? 🗆 Lead	d 🗌 Asbestos 🗍 E	Beryllium [] Mercur
18.	Materials used in process (include	organic mater				·
	List of Raw Materials		. Pri	ncipal Use		·Amount (1bs./hr.)
				· · · · · · · · · · · · · · · · · · ·		
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0	This application must include a det	ailed process	s flow diam	DEPARTMENT OF	ry and exit points	of all raw mata-
ð.	rials, intermediate products, by-pr		s iiow uiagr inished rrod	ucts.	1111 trials incl	luding airborne
	contaminants and other waste materi		inioned inou	The state of the s	Wiffterials incl	in in a second
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Important Note: If emissions from this source have been determined by source tests, material balances or emission factors, include such data and supporting calculations with application.

FOR OFFICIAL USE ONLY
Premise No. 03/17/01/02
Source No. 5/049

DATA SHEET STACKS AND OTHER EGRESS POINTS

Facility Address Beal Avenue Street Bucyrus Crawford 44820 Bucyrus Ohio City, Village or Township County Telephone Area Code 2. Type: Round Rectangular - top inside dimension(s) (L & W or Diam.) 3. Height: Above roof 5-11" ft. Above ground 21-11 ft. 4. Exit gas: Temp. °F. Volume ACFM Velocity feet per minute 5. Continuous monitoring equipment: Yes No. If yes, indicate: Type Make or model Pollutant 6. Draw a flow diagram in plan view of the source equipment, control equipment and stacks. If more than or or control device discharges into this stack show all connections.
City State Telephone Tel
2. Type: No Round Rectangular - top inside dimension(s) (L & W or Diam.) 30"DIA. 3. Height: Above roof 5"" ft. Above ground 2"" ft. 4. Exit gas: Temp. °F. Volume ACFM Velocity feet per minute 5. Continuous monitoring equipment: Yes No. If yes, indicate: Type Manufacturer Make or model Pollutant 6. Draw a flow diagram in plan view of the source equipment, control equipment and stacks. If more than or or control device discharges into this stack show all connections.
3. Height: Above roof
4. Exit gas: TempoF. Volume ACFM Velocityfeet per minute 5. Continuous monitoring equipment: Yes No. If yes, indicate: Type Manufacturer Make or model Pollutant 6. Draw a flow diagram in plan view of the source equipment, control equipment and stacks. If more than or or control device discharges into this stack show all connections.
5. Continuous monitoring equipment: Yes No. If yes, indicate: Type
6. Draw a flow diagram in plan view of the source equipment, control equipment and stacks. If more than or control device discharges into this stack show all connections.
or control device discharges into this stack show all connections.
RPM 7/1 30 01/4.
HILL TOOK
BLENDER
PLATFORM IN THE TOTAL THE TOTAL PLATFORM IN THE TOTAL PLATFORM
Important Note: If emissions from the above stack have been appearantly by performance testing or other me
Important Note: If emissions from the above stack have been determined by performance testing or other me include such data and supporting calculations with mill of a sheet.

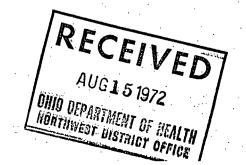
RAW MATERIALS

PLASTIC

DESCRIPTION	TOTAL	LB/HR_
Liquid nitrile (hycar 1312)	100,000 lb.	17.361 lb/hr
General purpose PVC (SG 414-2,1225,110,103 EPF77)	5,000,000	868.055
PVC fast drying (310)	35,500	6.163
PVC off grade Type 1	1,500,000	173.611
PVC off grade Type 2	2,150,000	373.263
Zinc oxide	595,000	103.298
Stabilizer (scotch laddie #15,4TS,etc)	75,750	13.151
Stabilizer (Feiro SR-2)	16,000	2,777
Stabilizer Liquid BaCdZn (5969,RRE)	72,000	12.500
Stabilizer Non-toxic, pwd (Vanctoy FA)	4,300	.746
Stabilizer Zinc, liquid (701)	2 ,4 00	.416
Stabilizer BaCd, pwd (5912)	19,000	3.298
Stabilizer Non-toxic, liquid (SR-3, NP 110)	200	.034
D 0 P	127,000	22.048
Reinforcing resin dark (Paradene Z, Extra dark)	110,000	19.097
Flame retardant solid (Chlorowax 70)	9,000	1.562
Sodium bicarbonate	52,000	9.027
Phthalate plasticizer (426,PX 138,etc)	640,000 gal	111.111 gal/hr
Epoxy plasticizer (660,PX800,PM3525)	200,000 1ь	34.722 lb.
Lt. Naph pet plasticizer (tufflo G014)	30,000 gal	5.208 gal/hr
Expoxidized soybean oil (estanox 203)	2,000 lb	.347 lb/hr
Plasticizer low extract	23,000	3.993
Double pressed stearic acid (hystrene 97)	24,000	4.166
Calcium stearate (sgnpron special, stayrite #16 flexichem CS)	12,000	2.083
Acrylic modified K1ZON	2,000	.347
MT (Thermax)	5,000,000	868.055
Acrylic modified KIZON MT (Thermax) Soft clay MORTON AND DEPARTMENT	3,000,000	520.833

PLASTIC

DESCRIPTION	<u>TOTAL</u>	LB/HR
Ahyd. polysilicate of alumina	121,000 1ь.	21.006 lb/hr
Water ground cale cart (atomite)	892,000	154.861
Ground whiting	7,285,000	1,264.756
Pyrazalone red-yellow shade #1151	200	.034
Molybdate red (pimento 12529)	6,000	1.041
Red ZB toner - blue shade (CP 1582)	500	.086
Phthalocyanine blue	600	.104
Phtyaloeyanine green	6,200	1.076
Green yellow shade (3826)	3,400	.590
Yellow greenish shade	23,000	3.993
Chrome yellow, red shade	19,000	3.298
Hansa yello₩	1,000	.173
Inorganic yellow pigment:	250	.043
Yellow, strontium chromate	700	.121
Benzidene yellow, red shade	25	.004
Titanium dioxide anatose	10,500	1.822
Molybdate orange	2,200	.381
Tinting violet	250	.043
Special black color	£,2 00	.729
Aluminum	600	.104
Gold pearlescent	1,520	.263
Fluorescent red	300	.052
Fluorescent yellow	300	.052



FOR OFFICIAL USE UNLY

Premise No. 03/97/0//0/02

Source No. P/006

APPLICATION FOR PERMIT PROCESS

A) MAD \$ 70 5/16/74

1.	Facility Name	Rubber-Div. of	Amerace-Esna P	erson to Contact	Jack McCoy	
	Facility Address _	Beal Avenue	M	ailing Address	Beal Avenue	
: .	Bucyrus	street Crawford		Bucyrus	Street Ohio	4482
	City, Village or Tov	enship Cou	nty Zip C	ity	State	;
			To	elephone 419-5	62-1011	. Numt
2.	This application i			, in our source		
	and the second s	perate an existing	· ·			
		onstruct a new sour				
		om regulation(s) _		•		
3.		rmation to accompan		· · · · · · · · · · · · · · · · · · ·		
÷	. A Plans and d	rawings t <u>i</u> me schedule	☐ Emission tests	or calculations	Process flow	
4.	Name of process	Plastic tuber m	ill lines	schedule	☐ Additional in Year installe	
5.	Product of this pr	ocess Compound s	TOCKS		None	
6.	Process equipment.	runnet litt illt	115 a Short bar	reloukabbak iextu	udars None	
7.	·	<u>& Stewart Bollin</u>	The second secon	Make or model 8	Mills	<mark>" rubber extru</mark> d
8.	Capacities (lbs/hr Each mill	- 500#/hr.	Maximum		111115	
	Each tuber	1600#/hr.	OPERATING	INFORMATION		
		2	Λ	-		
		chedule: hrs/day <u>2</u>				
					ing <u>25</u> Summer <u></u>	25 Fall 25
11.	Hourly production	rates (lbs): Aver	$\frac{160}{27}$ $\frac{4800\#/hr}{640.000}$	Maximum	<u>hr</u>	
12.	Annual production	(indicate units) _	<u>27,048,00</u> 0#	· · · · · · · · · · · · · · · · · · ·		
		annual increase in				
		- ·		□ Roof vent □ 0	ther, describe	<u> </u>
		Continuous 🗆 Bat			•	
	· · · · · · · · · · · · · · · · · · ·	per cycle				3311 5311
				appilicable)? 🗆 Lea	ad Asbestos DB	eryllium U Mercu
16.	materials used in	process (include o	rganic materials)			•
	List	of Raw		<u>`</u>		· Amount
		rials		Principal Use		(1bs./hr.)

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			·		IDE	1916 1111
				,	I BA IIC DA	A South
					No.	OFFICE
19.	This application m	ust include a deta	iled process flow	diagram. Show en	try and exit with	or all raw mate-
		e products, by-pro-			all ma all signed	ering airborne
		ther waste materia.			\ \\dR\\\\	
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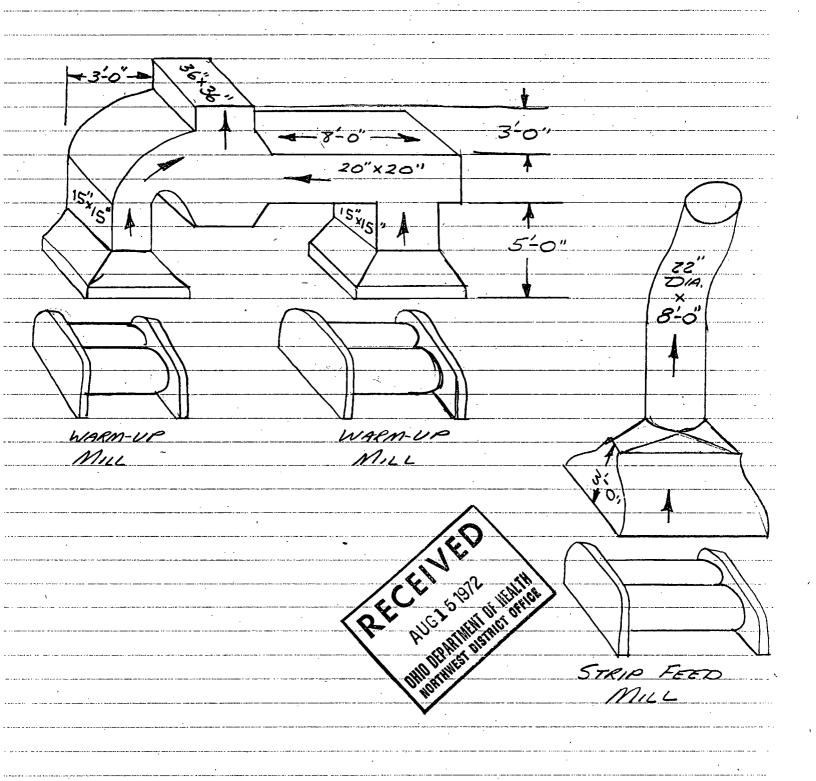
Important Note: If emissions from this source have been determined by source tests, material balances or emission factors, include such data and supporting calculations with application.

FOR OFFICE			٠.	: .
Premise No	.031	12	101	0102
remise No Source No.	S /	043	3	

Facility Name Swan Rubber Division of Amerace-Esna Person to Co	ontact Jack McCoy
Facility Address Beal Avenue Mailing Address Street	
Bucyrus Street 44820 Bucyrus	Street 44820
City, Village or Township County Zip City Telephone	State Zip
TelephoneA	419-502-1011 Area Code Number
A Type: ☐ Round Rectangular - top inside dimension(s)(L & W or Diagram)	医二醇基 化铁石 医二硫酸医医氯化基 美国人名姓氏人名姓氏人名 医电流管 医皮肤炎
Height: Above roof 8-9" ft. Above ground 25-9" ft.	
Exit gas: Temp. OF. Volume ACFM Velocity	
Continuous monitoring equipment: Yes No. If yes, indicate: Manufacturer Make or model	Type
Draw a flow diagram in plan view of the source equipment, control e	•
or control device discharges into this stack show all connections.	
#1 MILL LINE (PLASTIC)	
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ZZ'D 80 S-9"	
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P23	160 RPM.
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Important Note: If emissions from the above stack have been determined by performance testing or other means, include such data and supporting calculations with this data sheet.

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remise No	031	117/	01	101	02
Source No	5/	044	4		

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DATA SHEET STACKS AND OTHER EGRESS POINTS

Facility Name Swan Rubber Division of A	merace-Esna merace-Esna to Cont	act Jack McCoy	
Bucyrus Crawford	l 44820 Bucyrus	Street Ohio	44820
Facility Address Beal Avenue Street Crawford City, Village or Township County	Zip City Telephone	419-562-1011	Zip
Type: ▶ Round □ Rectangular - top inside d	imension(s)(L & W or Diam) 12" DIA.	Number
Height: Above roof 17-6 ft. Above g Exit gas: Temp°F. Volume		feet per minute	
Continuous monitoring equipment: Yes			
Manufacturer Mak	e or model	Pollutant	
Draw a flow diagram in plan view of the sou or control device discharges into this stac		aipment and stacks. If more	than one sourc
+2 MILL & TUBER LINE	(PLASTIC)		
		10" - 4 4 4	
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Important Note: If emissions from the above stack have been determined by performance testing or other means, include such data and supporting calculations with this data sheet.

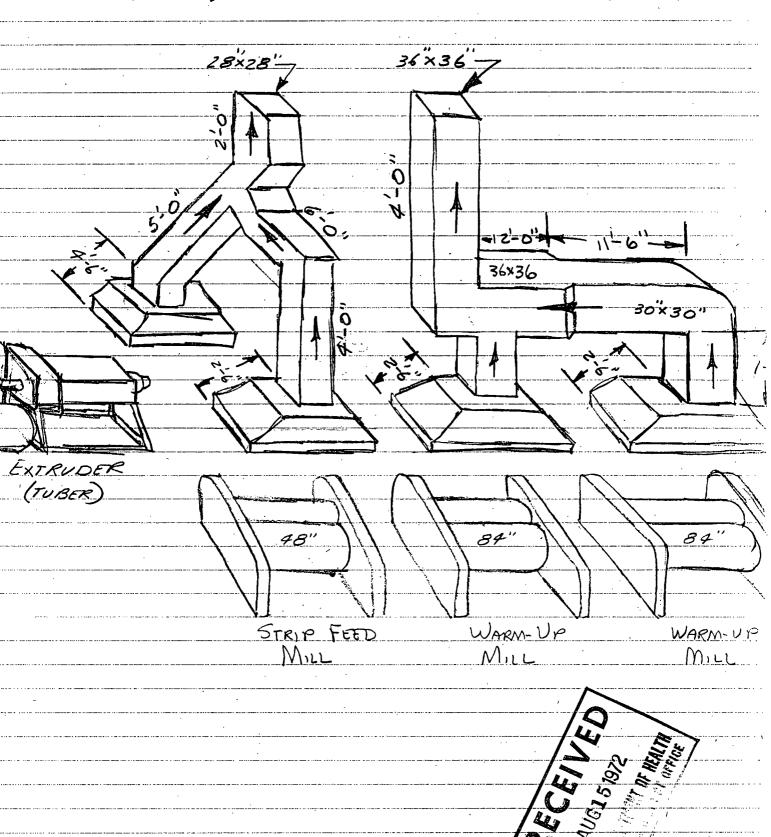
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FOR OFFIC	CIAL USE	ONLY			
remise l	vo. 03	113	101	1010	22
Source No	<u>. 5</u>	104	5	-	

Facility Name Swan Rubber	Division of Amer	race-Esna Person to	ContactJa	ck McCoy	
Facility Address Beal Ave	nue	Mailing A	ddressBe	al Avenue	
Facility Address Beal Ave Bucyrus City, Village or Township	street Crawford	44820 Bucy	rus	Ohio Street	44820
City, Village or Township	County	Zip City	419-5	State 62-1011	Zip
. Type: □ Round 🙎 Rectangul		Telephone	Area Code	12"x 48") . Number
. Type: ☐ Round ☐ Rectangul . Height: Above roof _ 8-6	ar - top inside dimer	ision(s)(L&Wor	Diam.)		
Exit gas: Temp°F.	•	and the second s	fe	et ner minute	
. Continuous monitoring equip					
Manufacturer	Make of	model	Pollutani		
. Draw a flow diagram in plan				nd stacks. If mo	re than one sourc
or control device discharge	s into this stack sl	now all connection	s.	· · · · · · · · · · · · · · · · · · ·	
#2 WARM-UP	11/225 (245716)			
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Important Note: If emissions from the above stack have been determined by performance testing or other means, include such data and supporting calculations with this data sheet.

Nº2 PLASTIC TUBER MILLS



FOR OFFICIAL USE ONLY
Premise No. 05/17/01/01/02
Source No. 5/046

DATA SHEET STACKS AND OTHER EGRESS POINTS

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Important Note: If emissions from the above stack have been determined by performance testing

include such data and supporting calculations with this data sheet.

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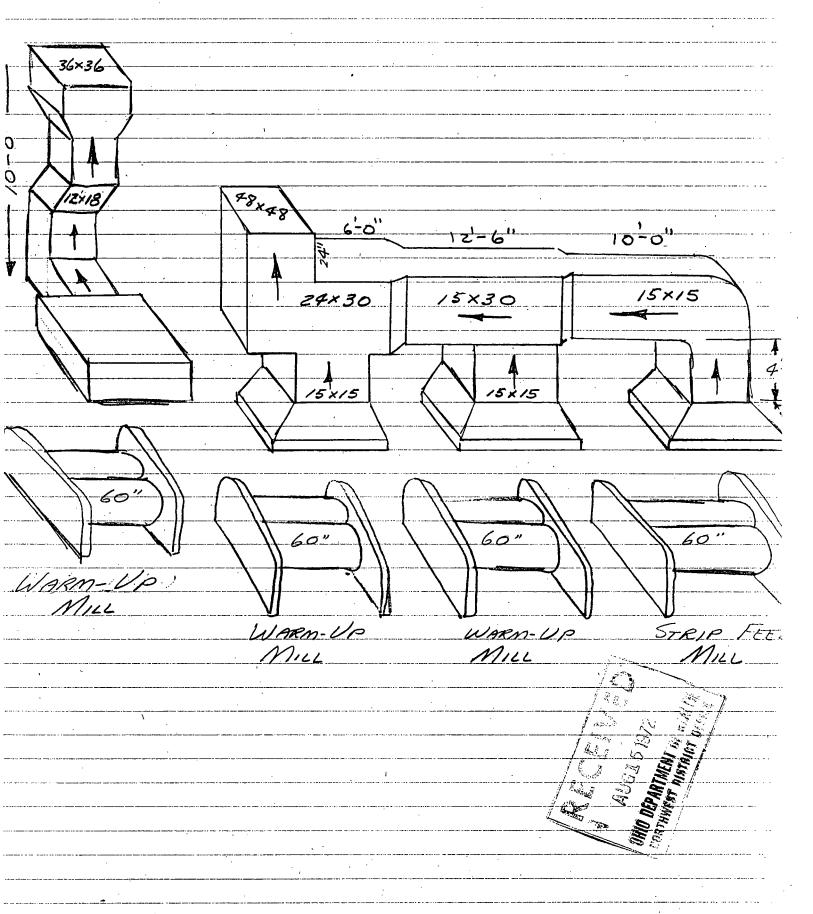
OR OFFICIAL USE ONLY			:
remise No. 03/17/0/	10	10	22
ource No. 5/047			٠.

Facility Name Swan Rubber Division of Amera	race-Esna Ferson to Contact Jack McCoy
Facility Address Bucyrus Bucyrus City, Village or Township County	Mailing Address Beal Avenue
Rucywis Chawfond	Street 44820 Bucyrus Ohio 44820
City, Village or Township County	Zip City State Zip
	Telephone 419-562-1011
Type: Round M Rectangular - ton inside dimens	Area Code nsion(s) (L & W or Diam.) $3(12'' \times 40'')$
Height: Above roof $8-7''$ ft. Above groun	75-7"st
Exit gas: Temp°F. Volume	
Continuous monitoring equipment: ☐ Yes 🗷 No.	
Manufacturer Make or	1 model Politicant
Draw a flow diagram in plan view of the source or control device discharges into this stack sh	equipment, control equipment and stacks. If more than one source how all connections
or concret device discharges into this stack sh	THE COMMON TOWNS.
#4 INDEPENDANT MILL (PLA	857 (2)
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Important Note: If emissions from the above stack have been determined by performance testing or other means, include such data and supporting calculations with this data sheet.

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Nº4 PROSTIC TUBER MILLS



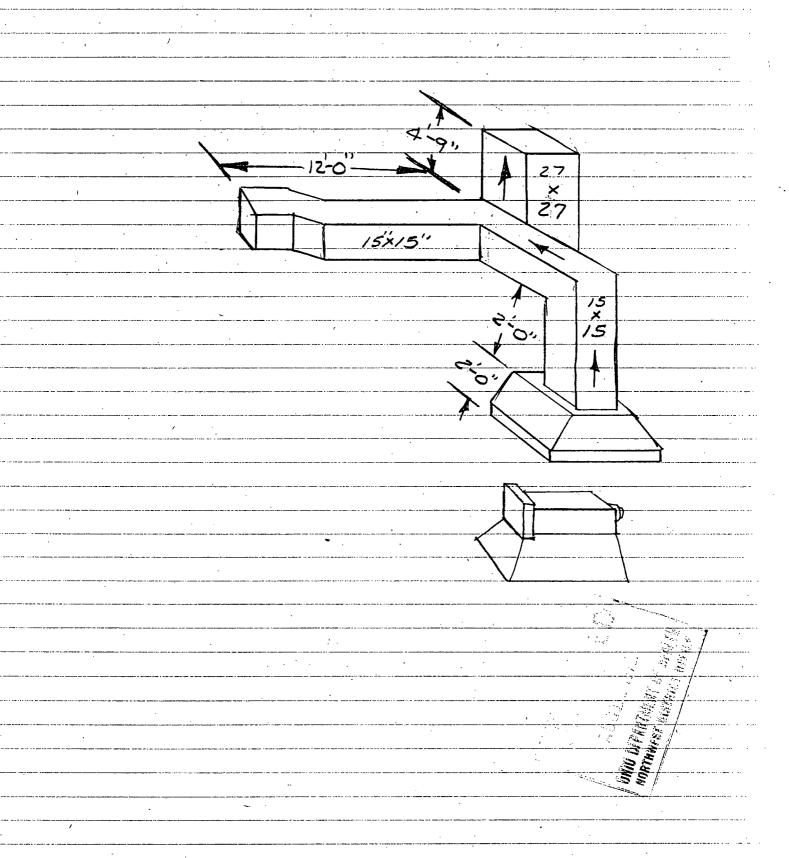
FOR OFFICIAL					
remise No	03	117	101	101	102
Source No	S	100	8		

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DATA SHEET STACKS AND OTHER EGRESS POINTS

Facility Name Swan Rubber Division of Amer	cace-Esna Person to Contact	Jack McCoy
Facility Modress Beal Avenue Street		
Bucyrus Street Crawford	44820 Bucyrus	Street 44820
City, Village or Township County	Zip City	State Zip 419-562-1011
Type: Round □ Rectangular - top inside dimer Height: Above roof 3-8" ft. Above ground	ision(s) (L & W or Diam.)	ET DIR
Exit gas: Temp°F. Volume		Sect per minute
Continuous monitoring equipment: ☐ Yes ☑ No.		
Manufacturer Make or	r modelPo	llutant
Draw a flow diagram in plan view of the source		
or control device discharges into this stack sl	how all connections.	
#4 TUBER (PLASTIC)		
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Important Note: If emissions from the above stack have been determined by performance testing or other means, include such data and supporting calculations with this data sheet.



RAW MATERIALS

PLASTIC

DESCRIPTION	<u>TOTAL</u>	LB/HR_
Liquid nitrile (hycar 1312)	100,000 1ь.	17.361 lb/hr
General purpose PVC (SG 414-2,1225,110,103 EPF77)	5,000,000	868.055
PVC fast drying (310)	35,500	6.163
PVC off grade Type 1	1,500,000	173.611
PVC off grade Type 2	2,150,000	373.263
Zinc oxide	595,000	103.298
Stabilizer (scotch laddie #15,4TS,etc)	75,750	13.151
Stabilizer (Feiro SR-2)	16,000	2,777
Stabilizer Liquid BaCdZn (5969,RRE)	72,000	12.500
Stabilizer Non-toxic, pwd (Vanctoy FA)	4,300	.746
Stabilizer Zinc, liquid (701)	2 ,4 00	.416
Stabilizer BaCd, pwd (5912)	19,000	3.298
Stabilizer Non-toxic, liquid (SR-3, NP 110)	200	.034
D 0 P	127,000	22.048
Reinforcing resin dark (Paradene Z, Extra dark)	110,000	19.097
Flame retardant solid (Chlorowax 70)	9,000	1.562
Sodium bicarbonate	52,000	9.027
Phthalate plasticizer (426,PX 138,etc)	337 94.	111.111 gal/hr
Epoxy plasticizer (660,PX800,PM3525)	2005000 1b	34.722 lb.
Lt. Naph pet plasticizer (tufflo G014)	က် အစို ,000 gal	5.208 gal/hr
Expoxidized soybean oil (estanox 203) $\int \mathbf{r} d\mathbf{r}$	2005000 1b 2005000 1b 2005000 1b 2005000 1b	.347 lb/hr
Plasticizer low extract	000, E2B,000	3.993
Double pressed stearic acid (hystrene 97)	4,000	4.166
Calcium stearate (sgnpron special, stayrite #16 flexichem CS)	12,000	2.083
Acrylic modified K1ZON	2,000	.347
MT (Thermax)	5,000,000	868.055
Soft clay	3,000,000	520.833

PLASTIC

DESCRIPTION	TOTAL	LB/HR
Ahyd. polysilicate of alumina	121,000 lb.	21.006 lb/hr
Water ground cale cart (atomite)	892,000	154.861
Ground whiting	7,285,000	1,264.756
Pyrazalone red-yellow shade #1151	200	.034
Molybdate red (pimento 12529)	6,000	1.041
Red ZB toner - blue shade (CP 1582)	500	.086
Phthalocyanine blue	600	.104
Phtyaloeyanine green	6,200	1.076
Green yellow shade (3826)	3,400	.590
Yellow greenish shade	23,000	3.993
Chrome yellow, red shade	19,000	3.298
Hansa yello₩	1,000	.173
Inorganic yellow pigment:	250	.043
Yellow, strontium chromate	700	.121
Benzidene yellow, red shade	25	.004
Benzidene yellow, red shade Titanium dioxide anatose Molybdate orange Tinting violet	00 × 000	1.822
Molybdate orange	250 250 250 250 2600	.381
Tinting violet	250 250	.043
Special black color	4,200	.729
Al umi num	600	.104
Gold pearlescent	1,520	.263
Fluorescent red	300	.052
Fluorescent yellow	300	.052

FOR OFFICIAL USE UNLY

Premise No. 03//2/0//0/02

Source No. P/005

APPLICATION FOR PERMIT PROCESS

DELETIZ

Fa	Beal Avenue cility Address Bucyrus Strect Crawfor ity, Village or Township col is application is submitted for: Permit to operate an existing	Mailing Addr d 44820 Bu	ess Be	al Avenue	
C	Bucyrus Crawfor ity, Village or Township Cou is application is submitted for:	d 44820 Bu			
- C	ity,Village or Township Cou	inty Zip City	cvrus.	Street Ohio	4482
	is application is submitted for:			State	
. Th		Telephone	419-562-1	011	
. Th		Ā	rea Code		Numb
	Permit to operate an existing	mar in			· ·
	Permit to construct a new sou				
	X Variance from regulation(s)		nths'		
:	eck-list of information to accompa	-	v		`*# · * .
20	☐ Plans and drawings	Emission tests or calcul	ations 🔼		
	Compliance time schedule Devulcanizer ur	Construction schedule		Additional info	
. Na	oduct of this process Rubber	reclaim		Year installed	1940,04 04
. Pr	ocess equipment Auto claves	•	ntification	· · · · · · · · · · · · · · · · · · ·	
. Fi	nufacturer 2-Admison, 1-Bigo	Your ide	models (5!	x 55') 1 (5	' v 55'\
. Ma	pacities (lbs/hr): Railed	Maximum	moder 4	- A - J - J - L - \ J	
· Co	pacities (105/m). Rated	MAXIMUM			•
		OPERATING INFORMATIO	N		
		Of Billing 1110 2111 Older	•••		
. No	rmal operating schedule: hrs/day	24 days/wk 5 wks/v	r 48	·	
	rcent annual production (finished			25 Summer 2	5 Fall 25
	urly production rates (lbs): Aver	•			
. An	nual production (indicate units) _	19,309,000#	•	•	
	ojected percent annual increase in			•	•
. Me	thod of exhaust ventilation: 🕱 St	ack 🗆 Window fan 🗆 Roof ve	nt 🗆 Other,	describe	
	pe of process: 🕱 Continuous 🗆 Ba				
	batch, minutes per cycle		-		
	es process involve any of the foll		? 🗆 Lead 🗆	Asbestos Ber	ryllium 🗀 Mercur
. Ma	terials used in process (include o	rganic materials)		•	
	List of Raw		•	· •	· Amount
	List of Raw Materials	Principa	l Use		Amount (lbs./hr.)
		Principa	l Use		
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Important Note: If emissions from this source have been determined by source tests, materia

emission factors, include such data and supporting calculations with appl

AP-PS-02

RAW MATERIALS

RUBBER RECLAIM

<u>DESCRIPTION</u>	TOTAL		LB/HR	
Tires with beads	12,750,000	1b.	2,213.541	#/hr.
Debeaded tires	200,000		34.722	
Cab tire scrap	40,000		6.944	
MR	2,000,000		347.222	
Dark aromatic pet plasticizer	(L x 777)	204,000 gal.	35.416	gal/hr.
Reclaiming agent	20,000	1b.	3.472	1b.
Reclaiming oil (solvenol #2)	24,000	gal.	4.166	gal/hr.
Reclaiming oil (hercosol 8550)	72,000	gal.	12.500	gal/hr.
Ground bituninous coal (Austin	250 ,000	O 16.	43.402	lb/hr
Ground whiting	7,285,000	1b.	1264.756	lb/hr.



FOR OFFICIAL USE ONLY
Premise No. 03 / 17 / 01 / 0102

Source No. 5 / 03 9

DATA SHEET STACKS AND OTHER EGRESS POINTS

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mportant Note: If emissions from the above stack have been determined by performance testing or other means, include such data and supporting calculations with this data sheet.

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ource No) <u></u>	04	-0		

Facility Name Swan Rubber Division of Amer	ace-Esna	Jack McCoy
Facility Name Swan Rubber Division of Amer	Mailing Address	Beal Avenue
Bucyrus Crawford City, Village or Township County Type: Round Rectangular - top inside dimen	44820 Bucyrus	Ohio 44820
City, Village or Township County	Zip City	State Zip 419-562-1011
	Area (Code 28" DIA Number
Height: Above roof $\frac{2'-2''}{2}$ ft. Above ground	sion(s) (i. 2 w or blam.) at 14^{-2} ft.	
Frit ans: Temn CF Volume	ACEM Volocity	fect per minute
Continuous monitoring equipment: Yes No.	If yes, indicate: Type	
Manufacturer Make or	modelP	ollutant
Draw a flow diagram in plan view of the source		pment and stacks. If more than one sou
or control device discharges into this stack sh	ow all connections.	, , , , , , , , , , , , , , , , , , ,
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Facility Mdress Beal Avenue	Facility Name Swan Rubber Division	of Amerace-Es	na Person to Contact	Jack McCoy	
Type: Nound CRectangular - top inside dimension(s) (1. & W or Diam,) 28 DM	Facility Address Beal Avenue	and Article States against	Mailing Address _	Beal Avenue	
Type: Nound CRectangular - top inside dimension(s) (1. & W or Diam,) 28 DM	Bucyrus Street	ford 44820	Bucyrus	Ohio	44820
Type: Nound CRectangular - top inside dimension(s) (1. & W or Diam,) 28 DM	City, Village or Township C	ounty Zip	City	State 419-562-1011	Zip
Type: Round Rectangular - top inside dimension(s) (1 & W or Disan.) 20 DDD. Height: Above roof 2 O' ft. Above ground 2 O' ft. Exit gas: Temp. °P. Volume ACFM Velocity feet per minute Continuous monitoring equipment: Yes No. 1f yes, indicate: Type			Telephone Area Co	de 00" DIO	Number
Exit gas: Temp °F. Volume ACFM Velocity feet per minute Continuous monitoring equipment: _ Yes KNo. If yes, indicate: Type Manufacturer Make or model Pollutant Draw-a flow diagram in plan view of the source equipment, control equipment and stacks. If more than one source control device discharges into this stack show all connections. **The control device discharges into this stack show all connections.** **The control device discharges into this stack show all connections.** **The control device discharges into this stack show all connections.** **The control device discharges into this stack show all connections.** **The control device discharges into this stack show all connections.** **The control device discharges into this stack show all connections.** **The control device discharges into this stack show all connections.** **The control device discharges into this stack show all connections.** **The control device discharges into this stack show all connections.** **The control device discharges into this stack show all connections.** **The control device discharges into this stack show all connections.** **The control device discharges into this stack show all connections.** **The control device discharges into this stack show all connections.** **The control device discharges into this stack show all connections.** **The control device discharges into this stack show all connections.** **The control device discharges into this stack show all connections.** **The control device discharges into this stack show all connections.** **The control device discharges into this stack show all connections.** **The control device discharges into this stack show all connections.** **The control device discharges into this stack show all connections.** **The control device discharges into this stack show all connections.** **The control device discharges into this stack show all connections.** **The control device discharges into this stack show all connect	Type: ▼ Round □ Rectangular - top ins	ide dimension(s)	(L & W or Diam.)	<u>28 V/7</u>	
Continuous monitoring equipment: Yes No. 11 yes, indicate: Type Mank or model Pollutant Draw a flow diagram in plan view of the source equipment, control equipment and stacks. If more than one source control device discharges into this stack show all connections.					
Manufacturer Draw a flow diagram in plan view of the source equipment, control equipment and stacks. If more than one source control device discharges into this stack show all connections. Sceniar Draw and Dr	Exit gas: TempF. Volume	ACI'M	Velocity	fect per minute	
Draw a flow diagram in plan view of the source equipment, control equipment and stacks. If more than one source control device discharges into this stack show all connections.	Continuous monitoring equipment: \(\subseteq Ye	s XNo. If ye	s, indicate: Type	13.4	
or control device discharges into this stack show all connections. **RECLARAN*** **Language Control of the Con			4	•	
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Important Note: If emissions from the above stack have been determined by performance testing or other means, include such data and supporting calculations with this data sheet.

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FOR OFFICIAL USE ONLY	<u> </u>		
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_DATA_SHEET STACKS_AND_OTHER_EGRESS_POINTS

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Facility Address _	Beal Avenue	<u> </u>	Mailing Address	Beal Avenue	
Bucyrus	Street	44820	Bucvrus	Ohio	44820
City, Village or Town	Crawford	Zip	City Telephone 4	State	Zij
			Telephone Area Code	19-562-1011	Numbo
Type: 🗆 Round 🕱	Rectangular - top inside dim	ension(s)	(L & W or Diam.)	25"x /9"	·
Height: Above roof	f 19 ft. Above gro	und/5	<u>-0</u> "ft.		D
Exit gas: Temp	°F. Volume	ACFM	Velocity	feet per minute	
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VARIANCE PERMIT COMPLIANCE TIME SCHEDULE -

The following COMPLIANCE TIME SCHEDULE is a part of the permit application for

TYPE OF EQUIPMENT:

Rubber Reclaim

COMPANY ID FOR EQUIPMENT:

Rubber Reclaim

(describe source equipment)

Located at the:

FACILITY NAME:

Swen Rubber

FACILITY ADDRESS:

Beal Avenue

Bucyrus, Ohio 44820

(indicates facility name and location)

SECEIVED

SINGENUM INTERPRED

LISTRICT AGENCY

Indicated below are the steps, or milestones, which will be taken by the above air contaminant source and the time required (in months) to complete each step as well as the time required for the total program. This COMPLIANCE TIME SCHEDULE will become a condition of the variance permit upon approval.

MILES!	TONE		l de la companya de l	PERIOD (MON	THS)	
1) Si	ubmission of final o	control plans for so	urce*	mon	ths 2/	′ 73
01	r issuing of purchas	for emission contr e orders for compone control or process m	ent parts to	NE mon	ths	
- •		construction or inquipment or process	· 47 🕳	11/71 mon	ths	
	-	construction or incurrence construction or incurrence construction or process		12 mon	ths 12/3	1/7:
	chievement of final tate and Federal rul	compliance with all es and regulations	applicable	12 mon	ths 12/3	1/7
6) Ad	ditional milestone	(Specify)		mon.	ths	
7) Ad	ditional milestone	(Specify)		mon	ths	<u>.</u>
8) Ad	ditional milestone	(Specify)		mon	ths .	
9) Ad	ditional milestone	(Specify)		mon.	ths	

^{*} To Ohio EPA

Premise No. 03/17/01/01/02
Source No. 9/004

APPLICATION FOR PERMIT PROCESS

DELETE

Bucyrus Crawford A4820 Bucyrus Ohio		Street Crawford	Mailing Address	Street Ohio 4/
This application is submitted for: Permit to operate an existing source Permit to construct a new source or modify an existing source Permit to construct a new source or modify an existing source Nariance from regulation(s)	City. Village or Town	ship County	Zip City	State
This application is submitted for: Permit to operate an existing source Permit to construct a new source or modify an existing source Avariance from regulation(s) for months Check-list of information to accompany this application: Plans and drawings Emission tests or calculations Additional information			Telephone 419-56	2-1011
Permit to operate an existing source Permit to construct a new source or modify an existing source Naviance from regulation(s) for	This application is	cubmitted for:	Area Code	And the second of the second o
Permit to construct a new source or modify an existing source Normal operating schedule Construction Co			rce	
Check-list of information to accompany this application: Manage Demission tests or calculations Machine Demission tests or calculations Machine Demission tests or calculations Machine Demission tests or calculations Demission tests or calculations Demission Demission tests or calculations Demission Dem	☐ Permit to con	nstruct a new source o	r modify an existing source	
Compliance time schedule Construction schedule Additional information Year installed 1950-196	· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·	
Compliance time schedule Construction schedule Additional information Year installed 1950-196	🛚 🔀 Plans and dra	awings DE	Cmission tests or calculations	▼ Process flow diagram
Process equipment Rubber mills Farrel (3) & Adamson (9) Make or model 21 x 24 x 32 Capacities (lbs/hr): Rated OPERATING INFORMATION Normal operating schedule: hrs/day 24 days/wk 5 wks/yr 48 Percent annual production (finished units) by season: Winter 25 Spring 25 Summer 25 Fall Hourly production rates (lbs): Average 19,309,000# Annual production (indicate units) 19,309,000# Projected percent annual increase in production Method of exhaust ventilation: Stack Window fan Roof vent Other, describe Type of process: Continuous Batch If batch, minutes per cycle minutes between cycles Does process involve any of the following (check all applicable)? Lead Asbestos Beryllium Materials used in process (include organic materials)	□ Compliance t	ime schedule CC	onstruction schedule	□ Additional information
Process equipment Rubber mills Your identification Make or model 21 x 24 x 32 Capacities (lbs/hr): Rated Maximum Maximum OPERATING INFORMATION	Name of process	Pubbon noclaim	<u>kubber)</u>	Year installed1950-1964
Capacities (lbs/hr): Rated Maximum	Product of this prod	Rubber rectaille	1	
Capacities (lbs/hr): Rated Maximum	ManufacturerF	arrel (3) & Adamson	Your identification (9) Make or model	21 x 24 x 32
Normal operating schedule: hrs/day 24 days/wk 5 wks/yr 48 Percent annual production (finished units) by season: Winter 25 Spring 25 Summer 25 Fall Hourly production rates (lbs): Average Maximum Annual production (indicate units) 19,309,000# Projected percent annual increase in production Method of exhaust ventilation: Stack Window fan Roof vent Other, describe Type of process: Continuous Batch If batch, minutes per cycle minutes between cycles Does process involve any of the following (check all applicable)? Lead Asbestos Beryllium Materials used in process (include organic materials)				
Percent annual production (finished units) by season: Winter 25 Spring 25 Summer 25 Fall Hourly production rates (lbs): Average 19,309,000# Annual production (indicate units) 19,309,000# Projected percent annual increase in production Method of exhaust ventilation: Stack Window fan Roof vent Other, describe Type of process: Continuous Batch If batch, minutes per cycle minutes between cycles Does process involve any of the following (check all applicable)? Lead Ashestos Beryllium Materials used in process (include organic materials)			OPERATING INFORMATION	
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Projected percent annual increase in production	_			
Projected percent annual increase in production	Percent annual produ	uction (finished units	s) by season: Winter <u>25</u> Sprii	ng <u>25</u> Summer <u>25</u> Fall <u>25</u>
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This application must include a detailed process flow diagram. Show entry and control of all raw merials, intermediate products, by-products and finished products. Label all merials including airborn	Hourly production ra Annual production (i Projected percent ar Method of exhaust ve Type of process: Ma If batch, minutes pe Does process involve Materials used in pr List of Materials	ates (lbs): Average indicate units)	19,309,000# Window fan	Amount (lbs./hr.)
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emission factors, include such data and supporting calculations with application.

RAW MATERIALS

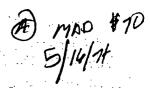
RUBBER RECLAIM

<u>DESCRIPTION</u> <u>TOTAL</u>	LB/HR
Tires with beads 12,750,000 lb.	2,213.541 #/hr.
Debeaded tires 200,000	34.722
Cab tire scrap 40,000	6.944
MR 2,000,000	347.222
Dark aromatic pet plasticizer (L x 777) 204,000 gal.	35.416 gal/hr.
Reclaiming agent 20,000 lb.	3.472 lb.
Reclaiming oil (solvenol #2) 24,000 gal.	4.166 gal/hr.
Reclaiming oil (hercosol 8550) 72,000 gal.	12.500 gal/hr.
Ground bituninous coal (Austin) 250,000 lb.	43.402 lb/hr
Ground whiting 7,285,000 lb.	1264.756 lb/hr.



FOR OFFICIAL USE UNLY
Premise No. 03/17/0//0/02
Source No. P/003

APPLICATION FOR PERMIT PROCESS



		Person to Contact Jack	
Facility Address		Mailing Address	
Bucyrus	Crawford	44820 Bucyrus,	Street Ohio 4482
City, Village or Town	ship County	Telephone 419-562-1011	
This application is	cubmitted for:	Area Code	Numb
. This application is	erate an existing source		
		modify an existing source	
· · · · · · · · · · · · · · · · · · ·		for months	
	mation to accompany thi		
	·	nission tests or calculations Pr	ocess flow diagram
□ Compliance t	ime schedule	onstruction schedule	ditional information
. Name of process	PVC plastic reclaim	banbury extruder ye	ar installed
. Product of this pro	cess Compounded recl	aim	
. Process equipment _	Banbury	Your identification	
. Manufacturer	rarrei	Make or model 3Z	
. Capacities (lbs/hr)	: Rated Ma	iximum	
		OPERATING INFORMATION	•
	24	3 484	
. Normal operating sc	nedule: nrs/day	days/wk $\frac{3}{25}$ wks/yr $\frac{48^{3}}{25}$ by season: Winter $\frac{25}{25}$ Spring $\frac{25}{25}$	S 25 No. 1 25
			Summer Fall
. Hourly production r	ates (lbs): Average indicate units) 9,532.	517# Maximum	
	nnual increase in produ		
•		Window fan Ø Roof vent □ Other, de	scribo
. Type of process:		initiation fair grands vente grands, ac	301 100
	er cycle minute	es between cycles	
		(check all applicable)? ☐ Lead ☐ As	bestos 🗆 Berylliúm 🗀 Mercu:
. Materials used in p	rocess (include organic	c materials)	\
List of Materi		Principal Use	Amount (1bs. /hr.)
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	st include a detailed r	OHIO DEPART NORTHWEST	exit points of all raw mate-
rials, intermediate	products, by-products	OHIO DEPART NORTHWEST	DISTRICT OFFICE
rials, intermediate		OHIO DEPART NORTHWEST	exit points of all raw mate-
rials, intermediate	products, by-products	OHIO DEPART NORTHWEST	exit points of all raw mate-
rials, intermediate contaminants and ot	products, by-products her waste materials.	OHIO DEPART NORTHWEST	exit points of all raw mate- erials including airborne

emission factors, include such data and supporting calculations with application.

RAW MATERIALS

PLASTIC RECLAIM

DESCRIPTION	TOTAL	LB/HR.
Soft PVC Plastisol (boot scrap	o) 5,906,000 1L	o. 1025.347 lb/hr
Polyethylene (AC 617)	25,000	4.340
Plasticizer for vinyl reclaim	22,000 ga	al. 3.819 gal/hr
Plasticizer filter cake	865,000 11	50.173 lb/hr
Ground whiting	7,285,000 1	1264.756 lb/hr



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Pren	nise	No	3/	12	10	110	10	2
Sour	ce :	No	Z	0	24			

Swan Rubber	Division of Amonaco-Fer	NA vaon to Contact	Jack McCoy	
Facility Name Facility Address Beal Aven Bucyrus City, Village or Township Type: Round Rectangula	nue	rerson to contact	Beal Avenue	
Facility Address	Street	Mailing Address	Street	
Bucyrus	Crawford 44820	Bucyrus	Ohio	44820
City, Village or Township	County Zip	Telephone 4	119-562-1011	Zip
		Area Cod	" 28" DIA	Numbe
. Height: Above roof $\frac{5^2}{2^2}$	ft. Above ground/_	<u>5 - 0</u> ft.		
. Exit gas: Temp°F.	Volume ACFM	Velocity	fect per minute	
. Continuous monitoring equipm	ment: Yes No. If yes	s,indicate: Type _		
Manufacturer				
Draw a flow diagram in plan			ent and stacks. If mor	e than one sour
or control device discharges	s into this stack show air o	tonnections.	 	
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Important Note: If emissions from the above stack have been determined by performance testing or other means, include such data and supporting calculations with this data sheet.

4P-PS-07

OR OFFICIAL USE ONLY
remise No. 03/07/04/002
ource No. 5/075

DATA SHEET STACKS AND OTHER EGRESS POINTS

Facility Name Swan Rubber Di	vision of Amera	ce-Esna Cerson to Contact	Jack McCoy	
Facility Address Beal Avenue		Mailing Address	Beal Avenue	
Bucyrus City. Village or Township	Crawford	44820 Bucyrus	Street Ohio	44820
City, Village or Township	County	Zip City Telephone	State 119-562-1011	Zip
Type: K Round Rectangular	- top inside dimens	Area Cod	" 28" DIA	Number
Height: Above roof 5'-2'	ft. Above ground	18'-0"st.		
Exit gas: Tempop. V	olume	ACFM Velocity		•
Continuous monitoring equipmen	t: ☐ Yes 🕱 No.	If yes, indicate: Type		
Manufacturer Draw a flow diagram in plan vi	Make or	modelPol	lutant	han and sour
or control device discharges i			ent and stacks. If more t	nan one sour
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remise No. 03/47/01/0102
Source No. 5/526

DATA SHEET STACKS AND OTHER EGRESS POINTS

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Important Note: If emissions from the above stack have been determined by performance testing or other means, include such data and supporting calculations with this data sheet.

AP-PS-03

FOR OFFICIAL USE O	NLY				÷.
Premise No. 03 /	17	101	10	10	2
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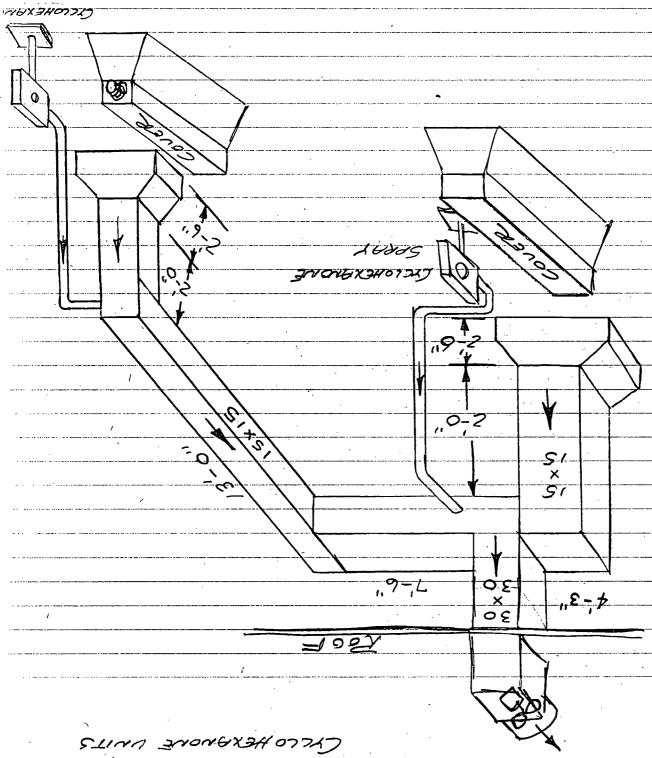
APPLICATION FOR PERMIT PROCESS

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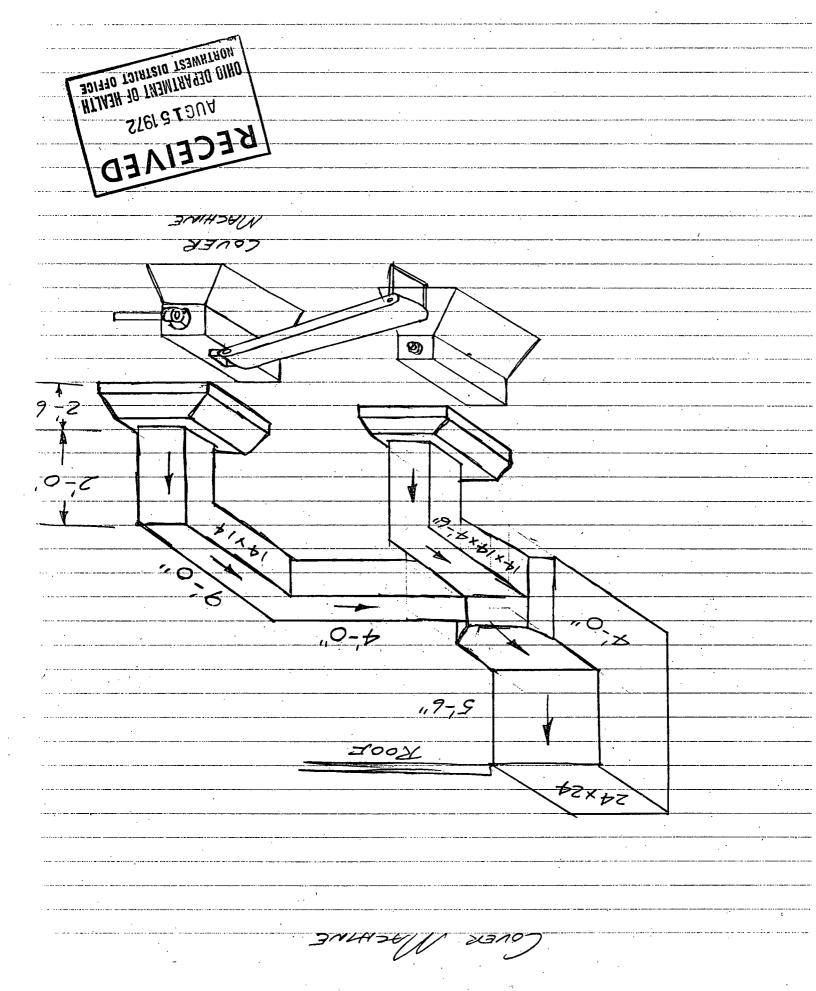


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PLASTIC COVER UNITS

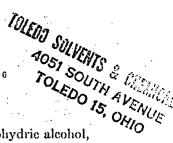
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DATA SHEET STACKS AND OTHER EGRESS POINTS

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CYCLOHEXANOL AND CYCLOHEXANONE

The two most important derivatives of cyclohexane are the monohydric alcohol, cyclohexanol, and the monoketone, cyclohexanone.

Cyclohexanol

Cyclohexanol, CH₂(CH₂)₄CHOH, is a colorless, rather viscous liquid with a camphoraceous odor. It is used chiefly as a chemical intermediate, as a stabilizer and homogenizer for various soap and detergent emulsions, and as a solvent for lacquers and varnishes.

Cyclohexanol was first prepared by Baeyer in 1894 by the treatment of 4-iodocy-clohexanol (prepared from 1,4-cyclohexanediol and dilute hydriodic acid) with zinc dust in glacial acetic acid. Later Ipatieff prepared cyclohexanol by the catalytic hydrogenation of phenol at elevated temperatures and pressures.

Properties. For the properties of cyclohexanol, see Table 1.

Table 1. Properties of Cyclohexanol and Cyclohexanone

	Cyclohexanol	Cyclohexanone
mp, °C	25.15	-47
bp, °C	161.1	156.7
d ²⁰	0.9493	0.9478
n_{D}^{2b}	1.4648	
n _D n _D	1.1010	1.4507
vapor pressure, 25°C, mm Hg	1.1	1,100
20°C, mm Hg	1.1	3.95
	0.417	0.433
sp heat, 15–18°C, cal/g	4.6	2.2
viscosity, 25°C, cP	67.2	54
flash point, open cup, °C		- -
soly in water, 10°C, g/100 g	4.2	15
30°C, g/100 g	4.3	5
soly of water in compound, 20°C, g/100		9.5
miscibility	miscible in all proportions	miscible with methanol,
	with most organic sol-	ethanol, acetone, ben-
	vents including those cus-	zene, n-hexone, nitroben-
	tomarily used in lacquers	zene, ether, naphtha, xy-
		lene, ethylene, glycol,
.		isoamylacetate, diethyl-
		amine, and most organic
		solvents
dissolves	many oils, waxes, gums, and	cellulose nitrate, acetate,
	resins	and ethers, vinyl resins,
		raw rubber, waxes, fats,
		shellac, basic dyes, oils,
		latex, bitumen, kaure,
		elemi, and many other
		organic compounds
		organic compounds

Cyclohexanol shows most of the typical reactions of secondary alcohols reacts with organic acids to form esters and with halogen acids to form the course sponding halides. Dehydrating agents convert cyclohexanol act to collectene, C_6H_{10} .

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Catalytic dehydrogenation or mild oxidation of cyclohexanol yields cyclohexanone. Oxidizing agents such as nitric acid or alkaline potassium permanganate convert cyclohexanol into adipic acid, HOOC(CII₂)₄COOH.

Manufacture. Cyclohexanol is prepared commercially by the catalytic air oxidation of cyclohexane or by the catalytic hydrogenation of phenol. The oxidation of cyclohexane is used for most production (1). Fundamentally, this is effected in the liquid phase by means of an oxygen-containing gas at a temperature of 120-250°C and a pressure high enough to keep the cyclohexane from vaporizing, and in the presence of an oxidation catalyst such as cobalt naphthenate (2). Since issuance of the basic patents (2), several additional patents have been granted to cover modifications (1). With the oxidation method, a mixture of cyclohexanol and cyclohexanone is first obtained. The unreacted cyclohexane is removed from the crude reaction product by distillation and recycled to the oxidation step. The mixture of cyclohexanol and cyclohexanone is then recovered by further distillation and separated by conventional vacuum-fractionating techniques. The hydrogenation of phenol is usually carried out at elevated temperatures and pressures in the presence of hydrogenation catalysts such as copper (3), nickel (4), a mixture of copper and nickel (5), or nickel oxide associated with chromic oxide (6).

Specifications and Containers. Commercial products are offered in two grades; one grade contains 2.25% methanol as an antifreeze and the other grade contains no methanol. Specifications for the unmodified product call for a minimum freezing point of 23°C, a boiling range of 160–162.4°C, a maximum of 0.5% ketone as cyclohexanone, and a maximum of 0.01% phenol. The grade containing the antifreeze must pass specifications for unmodified grade before the methanol is added.

Cyclohexanol is shipped in 55-gal drums, tank cars, and tank trucks. Drums carry the following warning label: "Caution—Vapor Harmful. Use only with adequate ventilation. Avoid prolonged breathing of vapor. Avoid prolonged or repeated contact with skin." The price in June 1964 was 28¢/lb in tank car or tank truck quantities.

Analytical Methods. The most general procedure for determining cyclohexanol is based on acetylation with acetyl chloride (7). The sample containing cyclohexanol is treated with acetyl chloride and pyridine at elevated temperatures, and following hydrolysis, the excess acid is titrated with sodium hydroxide solution. Aldehydes and easily hydrolyzed esters interfere with this method. For samples containing high concentrations of acids and easily hydrolyzed esters but no aldehydes or ketones, an alternate procedure is used (8). This procedure involves treatment at elevated temperatures of the sample containing cyclohexanol with acetic acid containing boron trifluoride catalyst. The water formed in the esterification reaction is then determined by the Karl Fischer method (see Aquametry). For analysis based on micro procedures, acetic anhydride is the preferred acetylating agent (22).

Cyclohexanol can be determined colorimetrically by reaction with p-hydroxybenzaldehyde in sulfuric acid (9). This method can be used in the presence of cyclohexanone and cyclohexano. Cyclohexanol and cyclohexanone both show a maximum absorbancy at 535 m μ but at 625 m μ the absorption by cyclohexanone is negligible, whereas cyclohexanol still shows appreciable absorption. Gas-liquid chromatography can be used also for the determination of cyclohexanol in mixtures with cyclohexanone and in the presence of small amounts of impurities, such as cyclohexano, cyclohexene, and water (10).

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Health and Safety Factors. Cyclohexanol is known to be slightly to moderately toxic (11,12). The LD₅₀ for rats is 2060 mg/kg of body weight (13). Contact with the skin may cause dermatitis in sensitive persons (11). It is also irritating to the mucous membranes. Prolonged inhalation or ingestion of small amounts can cause nausea, gastrointestinal disturbances, slight nervous symptoms, and trembling. The threshold limit value in air for a normal workday is 50 ppm by vol (14). The hazards of industrial exposure to vapors of cyclohexanol at room temperature, however, are believed to be limited by the low vapor pressure and the low rate of evaporation of this compound.

Precautions which should be observed as a matter of course in using cyclohexanol include adequate and proper ventilation, avoidance of prolonged breathing of vapor or contact of the liquid with the skin, avoidance of internal consumption, and protection of the eyes against splashing liquids.

Uses. The most important use for cyclohexanol is as an intermediate in the production of adipic acid (qv), 90% of which is employed in the United States in the manufacture of nylon-6,6, a polymer of adipic acid and hexamethylenediamine. One manufacturer also uses the adipic acid for production of the hexamethylenediamine. The next-important use is as an intermediate in the production of ϵ -caprolactam, NH(CH₂)₅CO, which is used in the manufacture of nylon-6 polymer.

The amount of refined cyclohexanol used in other applications, according to U.S. Tariff Commission figures, was about 5 million lb in 1963. One major use has been in the manufacture of esters for use as plasticizers, ie, cyclohexyl and dicyclohexyl phthalates (see Esters; Plasticizers). In the finishes industry, cyclohexanol is used as a solvent for lacquers, shellacs, and varnishes. Its low volatility helps to improve secondary flow and to prevent blushing. Also, it improves the miscibility of cellulose nitrate and resin solutions and helps to maintain homogeneity during drying of lacquers. Cyclohexanol is used as a stabilizer and homogenizer for soaps and synthetic detergent emulsions. It is used also by the textile industry as a dye solvent and kierboiling assistant.

Derivative. Commercial methylcyclohexanol, $CH_3C_6H_{10}OH$, is a slightly viscous, straw-colored liquid, which is a mixture of o-methylcyclohexanol (b₇₄₅ 164.5–165.5°C), m-methylcyclohexanol (b₇₆₉ 173.7–174°C), and p-methylcyclohexanol (b₇₄₅ 172.5–173°C). The commercial product, made by the catalytic hydrogenation of mixed cresols, has a boiling range of 155–180°C; $d_{15.5}^{15.5}$ 0.924 \pm 0.003; n_D^{20} 1.461. It is used as a solvent in lacquers, as an ingredient in soap-based spot removers, as a blending agent for special textile soaps and detergents, and in the manufacture of lubricating-oil additives.

Cyclohexanone

Cyclohexanone, CH₂(CH₂)₄CO, is a colorless, mobile liquid with an odor suggestive of peppermint and acetone. Cyclohexanone is used chiefly as a chanical intermediate and as a solvent for resins, lacquers, dyes, and insecticides Cyclohexanone was first prepared in 1893 by Wislicenus and Afracer by the dry distillation of calcium pimelate, OOC(CH₂)₅COOCa. Later, cyclohexanone was prepared by Bouveault by the catalytic dehydrogenation of cyclohexanone.

Properties. For the properties of cyclohexanone, see Table 1988 (1987) (1987)

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Cyclohexanone shows most of the typical reactions of ketones, in general, and aliphatic ketones, in particular. It reacts with hydroxylamine, phenylhydrazine, semicarbazide, Grignard reagents, hydrogen eyanide, sodium bisulfite, etc, to form the usual addition products. Cyclohexanone undergoes the various condensation reactions that are typical of ketones having α -methylene groups. Reduction converts cyclohexanone into cyclohexanol or cyclohexane. Oxidation with nitric acid converts cyclohexanone almost quantitatively into adipic acid, HOOC(CH₂)₄COOH.

Manufacture. Cyclohexanone may be produced by the catalytic air oxidation of cyclohexane, by the catalytic dehydrogenation of cyclohexanol, or by the oxidation of cyclohexanol. The catalytic air oxidation of cyclohexane, which is probably the most common method, produces a mixture of cyclohexanol and cyclohexanone, which is separated by the usual distillation techniques (2).

The catalytic dehydrogenation of cyclohexanol may be accomplished by reaction of the cyclic alcohol with a substance capable of taking up hydrogen, such as phenol, in the presence of hydrogenation catalysts at a temperature of 200°C (eq.1). A quan-

$$2 C_6 H_{11}OH + C_6 H_6 OH \rightarrow 3 C_6 H_{10}O$$
 (1)

titative yield of cyclohexanone may thus be obtained (15). Cyclohexanone may also be prepared by passing a gaseous mixture containing an inert gas and not over 10% oxygen through cyclohexanol containing a small quantity of cyclohexanone as an initiator at elevated temperatures and pressures of at least 10 atm. The oxidation products of this reaction, cyclohexanone and adipic acid, may then be recovered and separated (16).

Specification and Standards. One commercial product has specifications that call for a minimum of 99.70% cyclohexanone, a maximum of 0.05% water, a sp gr (25/25°C) of 0.9440-0.9460, a refractive index at 25°C of 1.4460-1.4490, and a distillation range to include 155.5°C, with 5-95% distilling within 1.5°C.

Cyclohexanone is shipped in 55-gal drums, tank cars, and tank trucks. Drums carry the following warning label: "Caution—Vapor Harmful. Keep away from heat and open flame. Use only with adequate ventilation. Avoid prolonged breathing of vapor. Avoid prolonged or repeated contact with skin." The price in June of 1964 was 31¢/lb in tank car and tank truck quantities.

Analytical Methods. Carbonyl as cyclohexanone may be determined by treating with hydroxylamine hydrochloride, which forms the oxime, as illustrated in the following equation:

With materials containing low concentrations of acids, the liberated hydrogen chloride is titrated with sodium hydroxide, using an indicator (20), or electrometrically. In the electrometric methods, the sample is treated with hydroxylamine hydrochloride in 1:1 methanol-water solution adjusted to pH 3.5, and the liberated hydrogen chloride is titrated with sodium hydroxide to pH 3.5. In the presence of acids, a Karl Fisher procedure based on the water liberated may be used (21).

Gas-liquid chromatography can also be used for determination of cyclohexanone in mixtures with cyclohexanol and small amounts of impurities such as cyclohexane, cyclohexene, and water (10).

Health and Safety Factors. The physiological response of animals to cyclohexanone has been studied by several investigators (11,12,17,18). Primary irritation and defatting of the skin can result from substantial or prolonged contact with cyclohexanone. Inhalation exposure in excess of the recommended threshold limit value of 50 ppm by vol (19) will be uncomfortably irritating and not readily tolerated for prolonged periods.

The precautions usually observed when handling volatile solvents should be observed as a matter of course with cyclohexanone. These include adequate and proper ventilation, avoidance of prolonged breathing of vapor or contact of the liquid with the skin, avoidance of internal consumption, and protection of the eyes against splashing liquids.

Uses. The most important use for cyclohexanone is as a chemical intermediate in the production of adipic acid (qv). In the United States about 90% of the adipic acid produced is employed in the manufacture of nylon-6,6 polymer. In another important use, the oxime of cyclohexanone, CH₂(CH₂)₄C=NOH (mp, 89-90°C), under-

goes the Beckmann rearrangement with sulfuric acid to give e-caprolactam (2-oxohexamethylenimine), NH(CH₂)₅CO (mp, 65°C), which is used in the manufacture

of nylon-6. Cyclohexanone is also used as a solvent (qv) and thinner for lacquers, especially those containing nitrocellulose or vinyl chloride polymer and copolymers, and as a general solvent for several synthetic resins including polyvinyl chloride and methacrylate ester polymers. Cyclohexanone is an excellent solvent for DDT. organic phosphorus insecticides, and many other similar materials. Cyclohexanone is used as a sludge solvent in oil for piston-type aircraft lubrication.

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20. W. M. D. Bryant and D. M. Smith, J. Am. Chem. Soc. 57, 57-61 (1935)
21. J. Mitchell, Jr., D. M. Smith, and W. M. D. Bryant, J. Am. Chem. Soc. 63, 73-74 (1941).

AUG 1 AUG OHIO DEPARTMENT OF HEALTH UNIO OLI ARIMENI OI REPLIT NORTHWEST DISTRICT OFFICE

CYCLOHEXANOL AND CYCLOHEXANONE

 N. A. Cheronis and T. S. Ma, Organic Functional Group Analysis by Micro and Semimicro Methods, Interscience Publishers, a division of John Wiley & Sons, Inc., New York, 1964, pp. 493-496.

R. D. KRALOVEC AND H. B. LOUDERBACK E. I. du Pont de Nemours & Co., Inc.

TOLEDO 15, OHIO

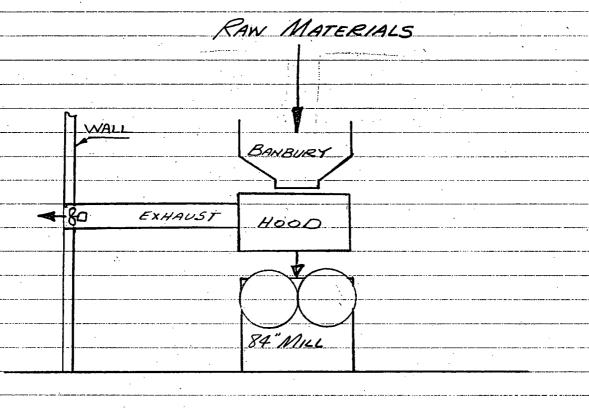


Premise No. 03/17/00/0102
Source No. P/00/

APPLICATION FOR PERMIT A 4/17/74
PROCESS MAD 110

1	Swan Rubber-Div. of Amerac	ce-Esna Person to Contact	Jack McCoy	
. 	Facility Address Beal Avenue	Mailing Address	Beal Avenue	
na. Najar	Street		Street	
	Bucyrus Crawford	44820 Bucyrus,		4482
	City, Village or Township County	Zip City 419-56	State	Zi
		Telephone 419-30	32-1011	NV
. 9	This application is submitted for:	Arez Code		Numb
۷.	R Permit to operate an existing source			
	☐ Permit to construct a new source or m	odify an existing source		
	□ Variance from regulation(s)			
3.	Check-list of information to accompany this	application:		
	N Plans and drawings	sion tests or calculations	N Process flow	diagram
	Cons	truction schedule	□ Additional in	formation 67 67
4.	Name of process Edinbury rubber mills	- nubban	Year installe	d 1956-57-67-69
5.	Product of this process Compound Stocks	- Tubbel		
6.	Product of this process Compound stocks Process equipment Rubber mills Manufacturer Stewart Bolling -Erie Ac	Your identificat	84"	·
	15,200		<u></u>	, 46
٥.	Capacities (105/III). Nated Maxi	mum	4 UN 1+5 4 W/ 2 BAGH	400521
•:		OPERATING INFORMATION	4 1 2 13h	OUSES NEWTHER
			13A6H	INT AURICE
9,	Normal operating schedule: hrs/day 16 d	ays/wk 5 wks/yr 48	ب مورس	· · · ·
10.	Percent annual production (finished units) Hourly production rates (lbs): Average Annual production (indicate units)	y season: Winter 25 Spri	ng 25 Summer _	$\frac{25}{\text{Fall}} = \frac{25}{\text{Fall}}$
11.	Hourly production rates (lbs): Average 13	3,200 Maximum 24,000		
12.	Annual production (indicate units)	None		
13.	Projected percent annual increase in product	ion Note	Hori	zontal forced at
14.	Method of exhaust ventilation: X Stack [] W	indow ran . 🗆 Root vent 🗀 Ot.	ner, describe	zoncar rorcea a
	Type of process: Continuous Batch If batch, minutes per cycle minutes	hetween cycles 4		
	Does process involve any of the following (c		d □ Asbestos □ P	ervlliúm El Mercur
	Materials used in process (include organic m			,
		· · · · · · · · · · · · · · · · · · ·		
	List of Raw Materials	Principal Use		Amount (lbs./hr.)
	Attached sheets			
				,
	,			
			·	
				 :
				
•				
				·
				·
19.	This application must include a detailed pro	cess flow diagram. Showrent	ly and exit points	call raw mate-
	rials, intermediate products, by-products ar		all date lals line	teing airborne
	contaminants and other waste materials.	l P	120-	
			AUG 15 1972	
				AFTO
	Important Note: If emissions from this sour	rce have been determined by	off bed the motel	Hall balances or

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OHIO-DEPARTMENT OF HEALTH NORTHWEST DISTRICT OFFICE

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remise No.	03 117	10410102
ource No.	5/01	8

Facility Name Swan Rubber Division of Amerace-Esna Person to Contact	Jack McLoy	
Facility Address Beal Avenue Mailing Address		
Bucyrus Street 44820 Bucyrus	Street	44820
City. Village or Township County Zip City	State	~ Zip
City, Village or Township County Zip City Telephone 4	19-562-1011	No. No.
Area Code Type: A Round Rectangular - top inside dimension(s) (L & W or Diam.)	28" DIA.	Number
Height: Above roofft. Above ground 6-6" ft.		
Exit gas: Temp. OF. Volume ACFM Velocity	feet per minute	
. Continuous monitoring equipment: 🗆 Yes 🗷 No. If yes, indicate: Type 🔙		
Manufacturer Make or model Poll		
Draw a flow diagram in plan view of the source equipment, control equipme		•
or control device discharges into this stack show all connections.	14	
#1 BANBURY MILL		
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эш	ce	No.		10	19	· 		2.5	٠.

Facility Name Swan F	Rubber Division of Ám	ierace-Esn	a Person to Contac	t Jack McCoy	
Facility Address Bea	al Avenue		Mailing Address	Peal Avenue	
Rucymus	Street	44020	Pucymic	Ohio	44820
City Village or Townshi	Street Crawford ip County ctangular - top inside dir ft. Above gr	4402U .	City	State	Zip
			Te lephone	419-562-1011	
			Arca C	ode 28" Dia	Number
Type: N Round Re	ctangular - top inside di	mension(s) ((L & W or Diam.)		
	Carlo Barto A Marchagas Carlos				
Exit gas: Temp	°F. Volume	ACFM	Velocity	fect per minute	
	g equipment: 🗆 Yes 🛣				
Manufacturer	Make	or model	Pc	ollutant.	*
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COANBU	RY MILL				
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FOR OFFICIAL USE ONLY
Promise No. 03 /12 /08 / 0/02
Source No. 5 / 020

DATA SHEET STACKS AND OTHER EGRESS POINTS

. Facility Name Swan Rubber Division of				· · · · · · · · · · · · · · · · · · ·
Facility Address Beal Avenue	Maili	ng Address	Beal Avenue	
Facility Address Beal Avenue Bucyrus Crawfor City, Village or Township Count	rd 44820 F	Bucvrus	Stree Ohio	44820
City, Village or Township Count	y Zip City		State 0.562 1011	Zip
	Teler	hone 41 Area Code	9-502-1011	Number
2. Type: M Round □ Rectangular - top inside	dimension(s)(L &	W or Diam.)	28 DIA.	
3. Height: Above roofft. Above				
4. Exit gas: Temp°F. Volume	ACFM Vel	ocity	_feet per minute	
6. Continuous monitoring equipment: Manufacturer Manufacturer	M No. II yes, 1nd	cate: Type	ut ant	
6. Draw a flow diagram in plan view of the so				* *
or control device discharges into this sta				one brain one board
#3 BANBURY MILL				
MALL				
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28 720				
20 32	HOOL			
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7-9"			HORTIWEST DIST	RICT OFFICE
	WILL		FLOOR	
				
				

OR OFFICIAL USE ONLY	
remise No. 03/12/01	10102
ource No. 5/021	

	ubber Division of Amer	ace-Esna	ct Jack McCoy	
Facility Address Bea	1 Avenue	Mailing Address		
	street Crawford		Street	44820
City, Village or Townshi	p County	Zip City	State	Zip
		Telephone	419-562-1011	Number
. Type: ⊠ Round □ Rec	tangular - top inside dime	nsion(s) (L & W or Diam.)) <u>28" DIA.</u>	
	ft. Above grou			
. Exit gas: Temp	°F. Volume	_ ACFM Velocity	feet per minute	
. Continuous monitoring	; equipment: ☐ Yes 🗷 No	. If yes, indicate: Type	3	·
			Pollutant	
			ipment and stacks. If more t	han one sour
or control device dis	charges into this stack s	how all connections.	oo saarah oo ka ah adaa daa ah aa ka ah aa ka ah aa ka ah aa ka ah aa ka ah aa ka ah aa ka ah aa ka ah aa ka a	almahandaninganinas
#4 BANBU	RYMILL		··│··┤─┤─┤─├─┤╴┧╸╏╺┤╺┥╺┥╍┦┷╃╾┤╍╎╸ ╼┾╼┼═╏┄╏╴┠╼┥╼╏┄╏╌╏╼╏╼┪╼┪╼┩╾┤╾╎╸	
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		MILL	FLOOR	
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RAW MATERIALS

DESCRIPTION	TOTAL	LB/HR
Thiokoji FA	25,000 lb	4.340 lb/hr
Diene 35NF	70,000	12.152
Neoprene GN	430,000	74.652
	570,000	98.958
WB	3,000	.520
WHY	44,000	7.638
WHV-100	424,000	73/611
WRT	1,400	.243
TW	1,438,000	249.652
Nitrile Med High (Hyear 1042, Chemigum N608)	263,000	45.659
Nitrile Med low Mooney paracril BJLT	25,000	4.340
Nitrile Med (Paracril BLT)	1,759,000	305.381
Nitrile vinyl blend (Paracril 020)	29,000	5.039
Liquid nitrile (Ýyear 1317)	100,000	17.361
Nitrile corss linked (chemigum N-8)	16,000	2.777
Nitrile low (Paracril AJ)	16,000	2.777'
Hypalon 40	282,000	48.958
Hypalon 40 HV	7,200	1.250
SBR 1006 (Polysar S-630)	104,000	18.055
SBR 1009: (6003, S-7554)	365,000	63.368
SBR 1502 (Krylene 604)	1,885,000	327.256
SBR 1512 (Kryflex 200)	92,000	15.972
SBR 1/13 (FRS 201)	132,000	22.916
SBR 1/13 (FRS 201) SBR 1805, 3775D RECEIVED RECEIVED	574,000	99.652
SBR 1805, 3775D SBR 8754 Times with beads Debeaded times PLOCE 151972 AUG 151972 OHIO DEPARTMENT OFFICE NORTHWEST DISTRICT OFFICE	108,000	18.750
Times with beads OHIO DEPARTMENT OFFICE	12,750,000	2213.541
Debeaded tires	200,000	34.722

· • • • • • • • • • • • • •	the state of the s	
DESCRIPTION	TOTAL	LB/HR
CAB tire scrap	40,000 lb.	6.944 lb/hr
580 x reclaim	2,385,000	414.062
880 reclaim	675,000	117.187
460 WT reclaim	400,000	69.444
EPDM reporcessed	5,000	.868
EPT high mooney (Nordel 1070)	174,000	30.208
EPT Low mooney (Nordel 1040)	79,500	13.802
EPDM Fast cure	10,000	1.736
EPT Fast ext. (Nordel 1145)	25,000	4.340
EPDM polymer	839,000	145.659
EPDM polymer (intermediate mooney)	193,000	33.506
EPDM polymer (high green strength)	55,000	9.548
EPDM polymer (GP fast curing)	120,000	20.833
EPDM polymer (oil ext)	500,000	86.805
Polyis obutylene (off grade)	2,000	.347
Epirholopahaplrim rubber	2,000	. 347
Sulfer	281,500	48.871
DTDM curing agent	1,100	.190
Peroxide curative	50	.008
Accelerator ZDMDC (Msimate)	8,020	1.392
Accelerator TDEDC (Telluroc)	$\widehat{\mathbf{O}}$ 25	.004
Accelerator TDEDC (Telluroc) ZADBDC DPG RECEIVE	2,150	.373
DPG RECEISTON	UEALTH 15,100	2.621
DPTG MBT (Captax, thiotax) AUC 15 1972 ONIO DEPARTMENT OF NORTHWEST DISTRIC	OFFIGE 400	.069
MBT (Captax, thiotax)	7,700	1.336
MBTs (Altax, thiofide)	24,400	4.236
Santocure, cydac, conacs, delae S. Durax	41,400	7.187

DESCRIPTION	TOTAL	<u>LB/HR</u>
NOBS special, amax, santocure Mor	3,500 lb.	.607
EPDM, accelerator	1,900	.329
TMTM (Thronex, Mono thiurad, cyvram)	43,550	7.560
TMTD (Tuads, tuex, SA 52-1)	34,350	5.963
DPTT masterbatch	4,500	.781
Thiourea accelerator (NA ZZ, ethylene thiourea)	4,800	.833
Tetramethyl thiourea	1,800	.312
Heavy mag oxide	26,500	4.600
Light mag oxide dispersion	46,000	7.986
Zinc oxide	595,000	103.298
Litharage	57,000	9.895
Light mag oxide	30,000	5.208
Red lead dispersion	25	.004
Retarder W	300	.052
Retarder V (Vultrol)	100	.017
Scorch regulator	6,700	1.163
Agerite gel	9,400	1.631
Flectol H. agerite resin D	25,650	4.453
Santoflex AW	5,000	.868
Pana (Neozone A)	6,350	11.102
Aminox	42,700	7.413
Antioxidant 2246 and 235	2,650	.460
Octamine, cyanox 8	√ 50	.008
Betanox special	62,000	10.763
Betanox special Akroflex CD agerite HP Wingstay 100	1,000	.173
Akroflex CD agerite HP Wingstay 100 AUG 151972 AUG 151972	CALTII d., 000	1.041
Wingstay 100 AUG 15 1972 AUG 15 1972 OHIO DEPARTMENT UP III ONTO DEPARTMENT UP III	5,550	.963

		•
DESCRIPTION	<u>TOTAL</u>	<u>LB/HR</u>
NBC, BTH	59,500	9.461
Navgawhite power	600	.109
Anti degradant flexzone TF	4,000	.694
Low MP paraffin, slab form	167,000	28.993
Anti-cheek wax flaked	90,600	15.729
Med. Mp paraffin - flaked	27,000	4.687
TBEP (KP 140)	3,000	. 520
Butyl oleate	251,000	43.576
D 0 P	127,000	22.048
Lt plasticizer (Sc,4141)	396,000	68.750
Lt plasticizer (TBEA)	10,800	1.875
Heavy paraffinic oil (sunpar 2280)	171,000	29.687
Light naphthanic proc oil (shellflex 213)	48,000 gal	8.333 gal/hr
Petrolatum (21355B, protopd ZA)	105,000 lb	18.229 lb/hr
Aromatic proc oil (paraflx, 4156 D-X, Sundex 790)	30,000 gal	5.208 gal/hr.
Heavy napthenic proe oil	246,000 gal	42.7 08 gal/hr
Rapeseed oil	7,900 lb	1.371 lb/hr
Soapflakes	500	.086
Polyethylene glycol (carbowax 4000)	61,000	10.590
Polyethylene glycol (carbowax 4000) Millrex Mill release agent (Rubars) Polyethylene mill (a/c grade)	3,800	.659
Mill release agent (Rubars) Polyethylene mill (a/c grade) Brown rubber sub (ZL,900) Coumarac - indene resin (MH 3, R-IGA)	372 2,889	.486
Polyethylene mill (a/c grade) AUGIST	IN OUR RESIDE	8.333
Brown rubber sub (ZL,900)	15.TR. 1,050	.182
Coumarac - indene resin (MH 3, R-IGA)	282,000	48.958
Targum S	14,500	2.517
MR	2,000,000	347.222
High styrene resin (2007, 8000A)	186,000	32.291

DESCRIPTION	TOTAL	<u>LB/HR</u>
Tachifia resin	75,000 lb	13.020 lb/hr
Hydrocarbon resin lt. color reinf.	34,000	5.902
Flame retardant solid (chlorowax 70)	9,000	1.562
Flame retardant liquid (chlorowax 40)	14,500	2.517
MT (Thermax)	5,000,000	868.055
SRF (furnex, essex, cointex, srf united 20)	3,400,000	590.277
HAF (Vulcan 3, statex R)	160,000	27.777
FRF (philblack A, statex M)	1,700,000	295.138
Hard clay	7,700,000	1336.805
Soft clay	3,000,000	520.833
Ground oyster shell (laminar, Bi-val 99)	1,037,000	180.034
Water ground cale cart (aromite)	892,000	154.861
Silica (H1 SiL 215)	24,000	4.166
Silica (Percipitated Hyd)	4,400	.763
Ground bituninous coal (Austin)	250,000	43.402
Ground whiting	7,285,000	1264.756
Red color std. shade (RT 618, 52-250)	4,500	.781
Red color dk. shade (RT 663, 19-261)	1,565	.271
Red oxide (297, 2199, 2551)	22,000	3.819
Phthalocyanine blue	600	.104
Phtylalocyanine green	6,200	1.076
Yellow iron oxide	11,150	1.935
Yellow iron oxide Yellow pigment (1270) Tatunium dioxide	100	.017
Tatunium dioxide Meleic acid Meleic acid	0,400	1.805
Meleic acid	TOFFICE 150	.078
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OUT OF FICTAL USE ONLY remise No. 03 /1 7 / 01 / 0/02 out of No. No. 10 / 001

69-14S-05

PERMIT APPLICATION INCINERATOR

. Facility Name	Swan Rubber	Esna	Person to Contact					
n - 2 i Au 'Addross	Beal Ave	enue		Mailing Addres	. Bea	al Avenue		
Bucyrus	· · · · (Street Crawford	44820	E	Bucyrus	Stree Ohio	t.	44820
City, Village or T	ownship	County	Zip	City		State		Zip
			. (Telephone				
		d Con.		Are	e Code	٠.		, Number
2. This application		xisting source					•	
_		new source or m		existing source				
		on(s)						
3. Check-list of in					•			
		🗆 Emissi			02	Process fl	ow diagra	m
□ Compliance	e time schedu	de 🗆 Constr] Additional	informat	ion
4. Source of combus	stible waste:	•						
		δs						
		nits						
		roomsscribe						
5. Incinerator loca								
6 Manufacturer	Owner			Make or i	nodel			
7. Rated capacity _		lb./hr. Yea	r installe	ed 1955 ye	our identi	ification		
8. Type of incinera	ator 💍 Sing	le chamber	() Multip	le chamber				
8. Type of incinera 9. Method of charg	ing waste: [□ Chute fed	□ Flue	fed 🗶 Direc	ot fed	□ Other.	If other,	describe:
						·	·	
0. Type of draft:	XX Forced	∐ Induced ∐ N	atural [] Starved air [r Overfire	e air jets, c	apacities	
 If liquid incine Type of flue dar 	mor: 🗆 Har	on atomization.	ntterfly	C. Guillotin	12 E1	Liding · X-	None	
 Adjustable air j 			uover 115	_ dulliouli		Cluing C	TOTIC	
4. Burner input (B)	rU/hr.): Pri	mary	Seco	ondary				
5. Secondary burner	r ignition: [🛚 Manual (timer) 🗆 Auto	omatic (charging	g door swi	itch)		
6. Secondary burner	r temperature	control: 🗆 Ye	s Lower	limit	°F 🗆 1			
7. Type of refracto 8. Primary chamber	ory: д Fireb	rick 🗆 Casta	ble Pyre	ometric cone eq	uivalence	2411		
8. Primary chamber	dimensions (inches) Lengt	h <u>30</u>	Width	Height			
9. Secondary chambe				•				
O. Describe provis	tons for comb	ustion of tempe	red make-	up air				
						·····		
		OPERATING SCHED	ULE AND A	HOUNT OF WASTE	INCINERATI	ED		
			•					
1. Normal operating	•							
2. Percent annual:						er <u>-25</u>	Fall2	5
3. Quantity of wast	te burned (lb	s./hr): Averag	e	Maximum				
4. Type of waste (BTU/lb
 Type of fuels us Amount of fuel 	sed: 11 Natur	"134,000 cu."	ft.	P gas 🔲 None urner manufactú		Unkne	Jwn	
7. Type of charging			ittent		rei/modei	Olikili	/////	
8. Percent project	4, 4			None .				
					[-			
					IRE		-	
Important Notes					1,50	EIVE		
Important Notes	: If emission	s from this sou	rce have	been <mark>decermine</mark>	by source	c tests, ma	e il l bal	ances or
	emission fa	ectors, include lysis must accoldrawing of the sapplication.	such data	and supporting	cale ALL	iding which ap	plication	
,	A waste ana	lysis must acco	mpany all	incinerator [MO DEPAY	ications	1	
	A detailed	lysis must acco drawing of the s application.	incinera	tor showing and	QRITHURS	Eli I was dor a	and duti m	ust ac-
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	equipment.		•	3.00	3 3		E 7	

mise No. 5/017

DATA SHEET STACKS AND OTHER EGRESS POINTS

Facility Name Sw	an Rubber	Division of A	merace-Es	na Person to Contact	Jack McCoy	
Facility Address	Beal Aven	ue	,	Mailing Address _	Beal Avenue	
Bucyrus				Bucyrus	21.10	44820
	ownship	County	Zip			Zip
		•		Telephone	419-562-1011	Number
Type: 🗆 Round	Rectangula	er - top inside di	mension(s)	(L & W or Diam.)	de 24"x24"	
Height: Above ro	of <u>5-0</u>	_ ft. Above g	round <u>13</u>	<u>~0"</u> ft.		
Exit gas: Temp.	°F.	Volume	ACFM	Velocity	fect per minute	
Continuous monit	oring equipm	ment: 🗆 Yes 🛭 🗷	No. 1f ye	s, indicate: Type _	· · ·	
Manufacturer	····	Make	or model	Pol	llutant	
				-	ment and stacks. If	more than one source
or control device	e discharges	s into this stack	k show all	connections.		
INCINER	OTOR		1-1-1-1-1-	┨╾ ╏╸┩╸┩ ╍┩╼┤┈╏╾╃╾╉╾╀ ┨╼ ╏═╏ ╾╏═╃		+++++++++++++++++++++++++++++++++++++++
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	+++++++					
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			HU			
					8-0"	
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					RECEIN AUGL 5 19,	
			1	*of	HALLEN	/ED
					AUG I K 10	72
					DHIO DEPARTMENT	4
					NORTHWEST DISTRICT	CALTH

KNEPPER WHITE ARTER & HADDEN

180 EAST BROAD STREET, FOURTH FLOOR
COLUMBUS, OHIO 43215

ARTER & HADDENI
HOD HUNTINGTON BUILDING
CLEVELAND, OHIO 44HB
HINTER (218) 696-100
TELEX 98 5384
TELECOPIER (218) 698-2645

(614) 221-3155 TELECOPIER (614) 221-0479 IN WASHINGTON
ARTER & MADDEN
1919 PENNSYLVANIA AVENUE, N. W.
WASHINGTON, D. C. 20006
(202) 857-0960
TELEX 89 7422
INTL. TELEX 248526

December 19, 1984

REGISTERED MAIL --RETURN RECEIPT REQUESTED.

Ohio Environmental Protection Agency 1035 Devlac Grove Drive Bowling Green, Ohio 43404

Re: Change of Ownership - Air Permit

Anchor Swan Corp. Bucyrus, Ohio

Gentlemen:

In accordance with OAC 3745-35-02(D)(2), you are hereby notified of the sale of the Anchor Swan facility located in Bucyrus, Ohio.

On November 19, 1984, Harvard Industries, Inc., a Delaware corporation entered into an agreement to purchase certain assets, which includes the Bucyrus facility, from Amerose Corporation and Anchor Swan Corporation. The exact date of closing has not yet been set, however, pursuant to the sales agreement is shall occur on or before January 4, 1985.

A number of air permits and registrations have been represented as being issued for the facility. Harvard Industries, Inc., is requesting that they be transferred to its name. Further, it realizes it will assume the responsibilities under those permits and registrations effective the date of transfer. A list of the permits and registrations is attached for your information.

Any correspondence or communications regarding this matter should be directed to my attention as their counsel.

Very truly yours,

KNEPPER, WHITE ARTER & HADDEN

ichard P. Fahey

RPF/cjd Attachment

Permits, Licenses, Franchises

grus, Ohio Plant

Air Permits

Contact: Ohio EPA, Northwest District Office 1035 Devlac Grove Drive

Bowling Green, Ohio 43404 Telephone: (419) 352-8461

Samir Araj

State EPA, Patricia Walling-Manager A&C Section, Ohio EPA 361 Broad Street

Columbus, Ohio 43215

Telephone: (614) 466-6116

Permit No.	Source	Туре	Regulation Cited
0317010102-P014*	Lead Pots & Bag House	P.T.O.	0.A.C3745-35
0317010102-P022	Electrostatic Spray Unit	P.T.O.	0.A.C3745-35
0317010102-K001	Rubber & Plastic Spiral Unit	P.T.O.	0.A.C3745-35
03-616	Extruder Parts Cleaner	P.T.I.	O.A.C3745-31
		P.T.O. Applied For	O.A.C3745-45
03-648	Electrostatic Spray Unit	P.T.I. P.T.O. Applied For	0.A.C3745-45
03-770	Plastic Compounding	P.T.I. P.T.O. Applied For	0.A.C3745-45
03-781	#3,4,5 Cyclohexanone Applicator	P.T.I. P.T.O. Applied For	0.A.C3745-45
03-1123	Thermoplastic Line Glue Applicator	P.T.I. P.T.O. Applied For	0.A.C3745-45
03-1299	Pin Cleaning Station	P.T.I. P.T.O. Applied For	O.A.C3745-45
03-1403	Vertical Vulcanizer	P.T.I. P.T.O. Applied For	0.A.C3745-45
03-1532	Fluoroelastomer Line Cyclohexanone Applicator	P.T.I. P.T.O.	0.A.C3745-45
03-661	System with Baghouse	Applied For P.T.I.	O.A.C3745-45
* Expired 8/84.	Application for replace	Applied For ment P.T.O.	has been 63

Expired 8/84. Application for replacement P.T.O. has been submitted.

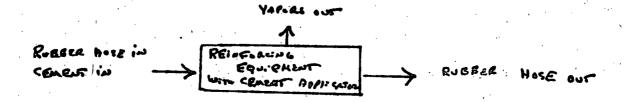
$e^{T/t}$			•
Permit No.	Source	Туре	Regulation Cited
03-1561	Cement Applicator P.S. Hose	P.T.I.	OAC 3745-31
0317010102 -	P 001 Banbury Rubber Mills	Registration Notice Only	OAC 3745-35-05
	P 002 Plastic Cover Machine	Registration Notice Only	OAC 3745-35-05
	P 003 Reclaim Banbury Extruder	Registration Notice Only	OAC 3745-35-05
	P 006 Rubber Mix Mills-Tubers	Registration Notice Only	OAC 3745-35-05
	P 007 Plastic Ribbon Blender #	3 Registration Notice Only	OAC 3745-35-05
	P 008 Plastic Reclaim Refiners	Registration Notice Only	OAC 3745-35-05
	P 009 Electrostatic Spray Unit	Registration Notice Only	OAC 3745-35-05
	P 010 Reclaim Choppers	Registration Notice Only	OAC 3745-35-05
	P 012 Rubber Buffer	Registration Notice Only	OAC 3745-35-05
	P 013 Reclaim Blender & Strainer	Registration Notice Only	OAC 3745-35-05
	P 015 Clay Bulk Handling System	Registration Notice Only	OAC 3745-35-05
	P 017 Bardol Spray Applicator	Registration Notice Only	OAC 3745-35-05
	P 019 Carbon Black System	Registration Notice Only	OAC 3745-35-05
	P 022 Electrostatic Spray Unit '74	Registration Notice Only	OAC 3745-35-05
	B 001 to B 028		
	B 030 to B-033 Boiler & Air Make Up Units	Registration Notice Only	OAC 3745-35-05

APPENDIX A, PROCESS

PROCESS DATA

Name of process Rubber Hose mfg. (P.S.)	
End product of this process Cemented Braided Hose	
Primary process equipment Cement box	
Your identification P.S. Hose #1	Year Installed 1983
Manufacturer Anchor Swan Make or	r mode1 N/A
Capacity of equipment (lbs./hr): Rated .24 gallon/hr M	Max24 gallon/hr.
Method of exhaust ventilation: X Stack Window f Other, describe	fan 🗌 Roof vent
Are there multiple exhausts? Yes No	
OPERATING DATA	
Normal operating schedule: 24 hrs./day, 5 days/w	vk., 48 wks./year.
Percent annual production (finished units) by season: Winter 25 Spring 25 Summer 25 Fall 2	25.
Hourly production rates (lbs.): Average .58 gallons Max	cimum <u>.58 gallons</u>
Annual production (indicate units) 2765 gallons Projected percent annual increase in production 10%	
Type of operation: X Continuous Batch	
If batch, indicate Minutes per cycle Mir	nutes between cycles
Materials used in process:	
List of Raw Materials Principal Use	Amount (lbs./hr.)
Neoprene rubber) 76/.) by velome.	.41 gal/hr.
Toruene) / Cement	63#/hr.=.088 gal/hr
M.E.K.	58#/hr = .088 gal/hr.
 	1.31

A PROCESS FLOW DIAGRAM MUST BE INCLUDED WITH THIS APPENDIX. Show entry and exit points of all raw materials, intermediate products, by-products and finished products, Label all materials including airborne contaminants and other waste materials. Label the process equipment and control equipment.



Cor	itrol Equipment Code:			
(A (B (C (D (E (F) Cyclone (H)) Multiple cyclone (I)) Electrostatic precipitator (J)) Fabric filter (K)	Cyclonic scrubber Impingement scrubber Orifice scrubber Venturi scrubber Plate or tray tower Packed tower	(N) (O) (P)	Afterburner - catalytic Afterburner - thermal
15.	Control Equipment data:			
-	Item (a) Type (See above code)	Primary Collector		Secondary Collector
- - -	(b) Manufacturer (c) Model No. (d) Year installed			
_	(e) Your identification (f) Pollutant Controlled (g) Controlled pollutant emission			
<u>.</u>	rate (if known) (h) Pressure drop (i) Design efficiency (j) Operating efficiency			
	STA	CK DATA		
16. '	our stack identification P.S. Ho	se #1		
17. /	Are other sources vented to this sta If yes, identify sources			
18.	Type: X Round, top inside diamete Rectangular, top inside d	r dimension 18" imensions (L)x (V	۷)	
19.	Height: Above roof 6 ft., abo	ve ground 26 ft.	•	
20.	Exit gas: Temp. Ambient OF, Volume	3000 ACFM, Veloci	ity	1700 ft./min.
21. (Continuous monitoring equipment: If yes, indicate: Type Make or Model	Yes No Manufaco, Pollutant(s) monitor	ture ed	r
22. I	Emission data: Emissions from this included with this appendix: If yes, check method: Stac	☐ Yes X No		
			÷	

Completed by R. Jacobson

			····	
1) PII kumber	03-1561	· · · · · · · · · · · · · · · · · · ·		
2) Date Applicat	ion Received //	14/83		•
3) Premise Numbe	: 03/70/010	2		
4) Start-up Date	End of 1983			•
5) Facility Mame	ANCHOR, SWAM	Corf Ameraco	Coff	
	tion: Street	6	City Bu	cyrus.
or Townshi	p		County Cran	<i>'</i> .
7) Facility Desc	ription Rubber	A) Plastic Hose	Manufacturing.	
	vclohexanone		·	
· · · · · · · · · · · · · · · · · · ·	ment Description _	• •		
10) Control Equip				
	ons: (Attach Cal			
<u>Pollutent</u>	Potential Pmissions #/hr TPY	Actual Emissions #/nr TPY	Regulations Allowable Endssions Whr	Permit Allowable Fmissions Whr mpy
Particulate	+21 351	1.21 3.51		
Hydrocarbons	1.21 3.51	1-21 3.51	Exempt Sol	vent"
Sulfur Dioxide				
Carbon Monoxide		•		:
Nitrogen Dioxide	<u> </u>	•		•
Lead		**********		
Other			•	
MESHAPS <u>No</u> MSPS <u>No</u> PSD <u>No</u>		with:		
		.0		
13) Recommended St	atus Approva	<u>~</u>		
Simatuna			Date /o	127/83

Emission Calculation.

Tolune.

.088 gal/hr x 7.2 #/gsl x Ton =

.00032 TPh

:

.63 #/hr

MEK.

.088 gallhr. X 6.6 # fgal x Ton Zooolb

1.84 TPY.

.00029 TPh

.58 #1hr

1.67 TPY.

Total Emission

·63+·58= 1.21 #/hr.

= 1.84 + 1.67 = 3.51 TPY.

Allowable =>

Exempt Solvent.

Toluene is under 20%, by volume.

MEK. is Exempt.

For Official U	se Only		
Premise No.	117/	0110	102
Source No.	1001		
Application No.	/		

APPENDIX D

SURFACE COATING OR PRINTING OPERATION

1.	This appendix is submitted for a:
. •	X Surface coating operation (check one below):
	Paint spray booth Flow coating X Dip tank Roller coating Spray Coating (Other than paint spray booth) Other surface coating operation, describe
	Printing or lithographic operation.
2.	Name of operation Thermoplastic Hose line ; Your identification Same Year Installed 1979
3.	Is this operation succeeded by a heated drying or baking operation? Yes No If yes, indicate operating temperature of ovenor.
4.	Normal operating schedule: 24 hours/day, 5 days/wk., 48 wks./year.
	PAINT SPRAY BOOTH N/A
5.	Type of spray booth:
6.	Booth manufacturerMake or Model No
7.	Type of spraying: Air gun Airless Electrostatic Other, describe
8.	Spraying operation is:
9.	Fan manufacturer Make or Model No
10.	Booth's exhaust is equipped with: Water wash (Complete item 11) Exhaust filters (Complete item 12) Baffles Other, describe None RECEIVED
11.	Water wash: (a) Is water recirculated? (b) Is a chemical added to the water? (c) Is material reclaimed from wash water? (d) Describe method for disposal of waste majewajsi.

^{*}Does not include metal plating

•				O
12.	Exhaust filters:			
,	(a) Type of material:	☐ Fiberglas ☐ Other, describ	Aluminum	
	(b) Filter size (inches):	LengthWidt	سيوري والمراجع والم والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع و	
٠	No. of filters:	No. of filte	er changes:t	imes per year
13.	Describe material painted		,	
	ALL OPER	ATIONS (Except pair	nt spray booth)	
14.	Describe type of operationallow yarn reinforcement to	Coating of Thermopl	astic hose with glue	.to.
15.	Describe method of coating o	r printing Hose is	pulled through glue	pot applicator.
16.	Identify and describe type(s)	of material coated	or printed	-U8, V
		ALL OPERATIONS		- 20 20 V
17.	Complete the following inform			
	printing material. Report on			
•	of any pigments, solvents, e furnish the same data for the	additional material	re than three types (s on a separate shee	of materials,
	appendix form.		-	Course of the same
				Δ1. · · · · · · · · · · · · · · · · · · ·
	(a) Material employed <u>Uret</u> Solids content <u>50</u> %	hane/MEK glue by volume or		_lbs./gallon 닉,ㅇ
ī	Solvent content 50-%	by volume; Solvent	density 6.71 lb	s./gallon
	Normal application sche	dule: 24 hrs./day,	5 days/wk., 48	wks./year.
	Quantity used (gallons/)		i waximum	
				
-	The second of the second of	mposition by identi	fying each solvent o	component
	d its mannation of her	volume of the total		volume
	and its respective % by should total to 100%).	volume of the total	Solvence. (The 18 by	volume
	and its respective % by		r vish uliqui ulita ste.	
	and its respective % by should total to 100%).	AVIII TO ALIE		
140	and its respective % by should total to 100%).	AVIII TO ALIE		Composition
	and its respective % by should total to 100%). Solvent Com	position	Solvent	
	should total to 100%). Solvent Com Solvent Methyl Ethyl Ketone	position *	Solvent	Composition
	should total to 100%). Solvent Com	position *	Solvent	Composition
	should total to 100%). Solvent Com Solvent Methyl Ethyl Ketone	position % by Volu:nc * 50% N emically reactive e	Solvent Solvent nter "Y", if not phot	Composition % by Volum

17	(b)	Material employed				Density	lb	s./gallon
***	ν,	Material employed% Solids content%	by volume	or	% 1	by weight		
		Solvent content %	by volume	Solver	it den	sity	_lbs./	gallon
• .		Normal application sch	edule:h	rs./day	· •	_days/wk.,_	wks	./year.
	1 4	Quantity used (gallons,	hour): No	rmal		Maximum	·	
	•	(gallons)	year):			N		
	٠	Complete the solvent c	omposition	by iden	nying	g each solve:	nt comp	umo
•		and its respective % by	volume of	tne tota	1 SOIV	ent. (The x	DA ACT	ume
		should total to 100%).						
		Solvent Co.	mposition	·	L	Solve	nt Com	position
		Solvent	% by Volu	ime *	S	olvent		% by Volume
							 	
• "					<u> </u>			·
		* If solvent is photoch				'Y", if not pl	notoche	mically
		reactive enter "N",	if unknown	enter "l	J".			
		Is the material photoch	emically re	active?		Yes 🔲 No		not know
		 	-					
			•					
17.	(c)	Material employed	· · · · · · · · · · · · · · · · · · ·			Density	11	os./gallon
		Solids content Solvent content %	% by volume	Solver	%	by weight	lhe /	'anllon
		Normal application sch						
		Quantity used (gallons,						
		(gallons,	4	111101		Maximum		
	: '	(90120113)	, year,	······				
		Complete the solvent of	omposition	bv iden	tifvino	g each solve	nt com	onent
		and its respective % by	-		_		-	•
		should total to 100%).						
••		Solvent Cor	nnocition	I	T	Colum	7	
		·		ma I + 1	-		nt Com	position
		Solvent	% by Volu	ine *	1 3	olvent		% by Volume
					ļ	·		
					<u> </u>	·		,
,			1					
•		* If solvent is photoch	omically ro	activo o	ntor II	VII if not ni		
		reactive enter "N",				i , ii not pr	iotoche	mically
						•		••
		Is the material photoch	nemically re	active?		Yes 🔲 No	D D	o not know
			-			·		
18.		ntify all liquid organic c					indicat	e the
	am	ount used per average op	erating day	and per	year.			• •
					allon	s Used		•
	1	Cleanup Material	*	Dai		Yearly	_	
						1	7	
						<u> </u>		-
	*	If material is photochemi	cally reacti	va ento	r "V"	If not photo		- 1 lee
		reactive enter "N", if un			,	ar not photo	cueinic	arrià
				. •			• .	

A PROCESS FLOW DIAGRAM MUST BE INCLUDED WITH THIS APPENDIX. Show entry 19. and exit points of all materials and finished products. Label all materials including airborne contaminants and other waste materials. Label the process equipment and control equipment. CONTROL EQUIPMENT Type of control equipment: X None 20. Incineration, Temp. oF, Thermal / Catalytic (Circle one) Adsorption, describe___ Condensation, describe Other, describe Model No. Year Installed 21. Manufacturer Percent collection or removal efficiency: Design_____% Operating____ 22. For non-incineration method identify specific pollutant controlled____ 23. Control of the Control of 24. Your stack identification Thermoplastic line glue pot exhaust 25. Are other sources vented to this stack?

Yes If yes, identify sources Type: X Round, top inside diameter dimension 12" Rectangular, top inside dimensions (L) x (W) Above roof 5 ft., above ground 25 ft. 27. Height: Exit gas: Temp. Ambiento F, Volume 1000 ACFM, Velocity 1200 ft./min. 28. 29. Continuous monitoring equipment: If yes, indicate Type_____, Manufacturer____ Make or Model , Pollutant(s) monitored 30. Emission data: Emissions from this source have been determined and such data is included with this appendix: If yes, check method:

Stack Test

Emission factor

Material balance Completed by R. J. Jacobson , Date 6/19/81

- 12. Thermoplastic hose
- 13. Methyl Ethyl Ketone vapors
- 14. Methyl Ethyl Ketone vapors
- 15. Exhaust Ventilation
- 16. N/A
- 17. N/A
- 18. No effect on environment anticipated.
- 19. None
- 20. None
- 21. Yes. To the best of our knowledge
- 22. Yes. To the best of our knowledge
- 23. N/A
- 24. N/A
- 25. No

NEW SOURCE REVIEW

7)	rri Number <u>03-//23</u>	
2)	Date Application Received 7-10.81	•
3)	Premiue Number <u>03/70/07</u>	٠.
4)	Searc-up Date / holkelouse]	
(د	Pacificy Name (CODA) HOSE DIVISION	٠.
6)	Pacility Location: STREET <u>REAL AUF</u> STRY <u>BUCYPUS</u>	
	OR TOWNSHIP COUNTY CRAWFORD	
7)	Vacility Description HOSE MFG.	
U)	Source BLUE APPLICATOR FOR MEINFORCING THEPMOPHISTIC HOSE	1
(د	Control Equipment Description NonE	,
10)	Control Equipment Cout N. A	
11)	Annual Emissions: (Attach Calculations)	
	regulations permit potential actual allowable allowable pollutant emissions emissions emissions emissions	
	Particulate EXEMPT UNDER	ъ2_
	Hydrocarbons SEE REVERSE SIDE EXEMPT HADDEN STANDED TO STAND STAND STANDED TO STAND STANDED TO STAND STANDED TO STAND STANDED TO STA	(F
	Sulfur Dioxide	
	Carbon Monoxide	
	Nitrogen Dioxide	
	Lead	
	Other	
12)	Does this source have to comply with: N,A,	٠
	NESHAPS NSPS PREVENTION OF SIGNIFICANT DETERIORATION INTERPRETATIVE RULING	
13)	Recommended Status REGISTRATION	
٠	Signature Don Wolfern eages Date 7-20-81	

ACTUAL EMISSIONS:

MAX - 3 GAL /HR X 4.0 LO/GAL X 24 HR/day = 288 LB/day

NORMAL - 1 GAL/HO X 4.0 " X 24 " = 96 LB/day

MAX. YEARLY USAGE ~ 2000 GAL X 4.0 LB/GAL = 8.000 LB/YE = 4 TAY

"THIS OPERATION IS INTERMITTENT & ALTHOUGH IT HAS THE

POTENTIAL OF EMITTING ~ 268 LB/day, THE YEARLY USAGE OF

GLUE IS ONLY ABOUT 2000 GAL, SOLVENT EMPLOYED IS

MEK - EXEMPT